



**PR1500
PORTABLE
UHF Models**

Features

All UHF PR1500 Portable Models Include:

- Battery (IMPRES NiMH, 1850 mAh, 7.5V - NTN9858)
- Antenna (UHF NAE6549AR Whip 380-520 MHz)
- Remote Speaker Microphone Adapter (4385665D01)
- User Guide CD (9964416H07)
- Charger (IMPRES Rapid Single Unit - WPLN4111_R)
- 2.25" Belt Clip (HLN6853)
- Accessory Connector Dust Cover (1505579Z01)
- Two Year Warranty

Features:

- 32 Channels
- 3 Programmable Side Buttons
- 16 Position Rotary Mode Select Switch
- Dual Priority Scan
- Noise Reduction Software
- Weather Sealed Universal Accessory Connector
- Standard & Non Standard PL/DPL Code Capable
- MDC-1200 Radio Check (Decode)
- MDC1200 Silent Emergency (Encode)
- MDC1200 Selective Call (Decode)
- Quik-Call II (Decode)
- 12.5 kHz Switchable Channel Spacing (VHF/UHF)
- 1 Programmable Top Button
- Top Mount Concentric 3 Position Programmable Switch
- Operator Selectable Scan
- Bi-Color LED Indicator
- Audio Gain Control
- MDC-1200 PTT-ID (Encode)
- MDC1200 Emergency (Encode)
- MDC1200 Call Alert (Decode)
- MDC1200 Select Radio Inhibit (Decode)

Programmable Buttons:

- Emergency
- Repeater Talkaround
- Dynamic Priority
- Nuisance Channel Delete
- Monitor
- Scan
- Volume Set

Ordering Requirements

1. All PR1500 UHF radios ship from the factory un-programmed unless programming option is ordered.
2. Radio is not made in America.
3. **Not for Export. For Domestic use ONLY.**
4. The following frequencies are not allowed:
386.400,396.000,401.000,403.200,414.000,420.000,426.000,432.000,436.800,438.000,440.000,444.000,450.000,453.600,456.000,468.000,462.000.

FCC Information

Band/Model	Power Output	Transmitter Type Acceptance	Emissions	Applicable Rules
380-470 MHz	1-5W (Ships 5W)	AZ489FT4865	16K0F3E, 11K0F3E	90
450-520 MHz	1-5W (Ships 5W)	AZ489FT4866	16K0F3E, 11K0F3E	90

Models

Description	Nomenclature	APC	Price
PR1500 380-470 MHZ, 1W - 5W, 32 CH	AAH79QDC9PW5 N 626		\$1,250.00
PR1500 450-520 MHZ, 1W - 5W, 32 CH	AAH79SDC9PW5 N 626		\$1,250.00

Options

Antenna

Description	Nomenclature	APC	Price
DEL: STANDARD UHF WHIP ANT	H112JH	626	(\$3.50)

Battery

Description	Nomenclature	APC	Price
IMPRES NIMH, 1700 MAH, 7.5V, INTRINS SAFE (NTN9857) IMPRES Battery	Q393BG	626	\$28.00

Belt Clip(s)

Description	Nomenclature	APC	Price
DEL: STANDARD BELT CLIP	H301CE	626	(\$5.00)

Charger

Description	Nomenclature	APC	Price
DEL: STANDARD CHARGER	H951FD	626	(\$35.00)
UNIVERSAL TRI-CHEMISTRY, SINGLE UNIT CHARGER (NTN1667)	QA00294AA	626	(\$20.00)

Service Options

Description	Nomenclature	APC	Price
ENH: 2 YR SFS LITE Provides hardware repair coverage for 2 years beyond the standard 2-year warranty for a total of 4 years of coverage. Repairs will be made at the Motorola Service Depot. Customer is responsible for inbound repair charges. No discounts are allowed on this option.	H885CJ	185	\$84.00
ENH: 1 YR SFS LITE Provides 1 year of extended hardware repair coverage beginning after the standard warranty period, Giving 3 years of warranty. Repairs will be made at the Radio Support Center. The customer pays for inbound shipping. No discounts are allowed on this option.	Q884BP	185	\$44.00

Packaging

Description	Nomenclature	APC	Price
BULK PACKAGING (MINIMUM 10 UNITS PER LINE ITEM)	H415ER	626	\$0.00

Accessories

Adapter

Description	Nomenclature	APC	Price
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$52.50
KEYLOAD ADAPTER The Surveillance/KEYLOAD ADAPTER NTN8613 allows XTS2500, XTS3000, XTS3500 and XTS5000 radios to be used with a ZMN6031, ZMN6032, ZMN6038 or ZMN6039 surveillance microphone and earpiece	NTN8613	476	\$89.25

Antenna

Description	Nomenclature	APC	Price
UHF HELICAL ANTENNA, 403-435 MHZ	NAE6546 R	796	\$16.00
UHF HELICAL ANTENNA, 470-520 MHZ	NAE6548 R	796	\$16.50

Battery

Description	Nomenclature	APC	Price
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	NNTN6263	453	\$137.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	NTN9857C	453	\$132.00
IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	NTN9858C	453	\$112.00

Belt Clip(s)

Description	Nomenclature	APC	Price
2" SPRING BELT CLIP For MTH800 - to be used in conjunction with bracket U/slot FTN6302	HLN9844	577	\$11.50

Belt Loops

Description	Nomenclature	APC	Price
CARRY CASE SHOULDER STRAP Adjustable Nylon Carrying Strap	NTN5243A	271	\$23.00

Cable(s)

Description	Nomenclature	APC	Price
CABLE- PROGRAMMING USB DOES NOT require Smart Rib. This cable MUST be ordered or the RKN4106 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No RIB Box required.	RKN4105	261	\$237.00
CABLE- PROGRAMMING, RS232 This cable MUST be ordered or the RKN4105 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No RIB Box required.	RKN4106	261	\$251.00

Call Boxes

Description	Nomenclature	APC	Price
A1- SOLAR CALL BOX Field programmable. Mounts on a wall, or on a PVC or aluminum stanchion. Solar or AC/DC power. The .090 thick aluminum enclosure with white powder coat measures 13"H x 9.5"W x 6.5"D. Provides protection against dust and falling rain. For indoor and outdoor use. Includes antenna and set of small reflective decals.	RRDN4362A	505	\$2,565.00
A1-AC/DC CALL BOX Field programmable. Mounts on a wall, or on a PVC or aluminum stanchion. Solar or AC/DC power. The .090 thick aluminum enclosure with white powder coat measures 13"H x 9.5"W x 6.5"D. Provides protection against dust and falling rain. For indoor and outdoor use. Includes antenna and set of small reflective decals.	RRDN4363A	505	\$2,465.00
A1-SOLAR W/ ALUMINUM STANCHION CALL BOX Field programmable. Mounts on a wall, or on a PVC or aluminum stanchion. Solar or AC/DC power. The .090 thick aluminum enclosure with white powder coat measures 13"H x 9.5"W x 6.5"D. Provides protection against dust and falling rain. For indoor and outdoor use. Includes antenna and set of small reflective decals.	RRDN4365A	505	\$3,395.00
ACB-SOLAR CALL BOX Push-to-talk communication. No door to open. The indoor/outdoor wall mount aluminum enclosure is .090 thick with white powder coat. It measures 20"H x 14"W x 7.5"D with a thick, clear Lexan face-plate cover. Includes activation ringer, antenna and set of small reflective decals.	RRDN4367A	505	\$2,775.00
ACB-AC/DC CALL BOX Push-to-talk communication. No door to open. The indoor/outdoor wall mount aluminum enclosure is .090 thick with white powder coat. It measures 20"H x 14"W x 7.5"D with a thick, clear Lexan face-plate cover. Includes activation ringer, antenna and set of small reflective decals.	RRDN4368A	505	\$2,675.00
A1410-SOLAR CALL BOX Self-standing. The .090 thick aluminum stanchion with white powder coat measures 10"H x 14"W x 7.5"D. Thick, clear Lexan faceplate cover and includes an activation ringer, antenna and set of large reflective decals. 10 watt solar panel provides additional charging power to allow the beacon/locator light to function 24 hours a day.	RRDN4369A	505	\$3,400.00
A1410-AC/DC CALL BOX Self-standing. The .090 thick aluminum stanchion with white powder coat measures 10"H x 14"W x 7.5"D. Thick, clear Lexan faceplate cover and includes an activation ringer, antenna and set of large reflective decals. 10 watt solar panel provides additional charging power to allow the beacon/locator light to function 24 hours a day.	RRDN4370A	505	\$3,300.00
A106.5-SOLAR CALL BOX Freestanding. Solar or AC/DC power. The .090 thick, white powder-coated aluminum box measures 6.5H x 10W x 5D. Includes antenna and choice of reflective vinyl message decal.	RRDN4588	505	\$2,795.00
A106.5-AC/DC CALL BOX Freestanding. Solar or AC/DC power. The .090 thick, white powder-coated aluminum box measures 6.5H x 10W x 5D. Includes antenna and choice of reflective vinyl message decal.	RRDN4589	505	\$2,695.00
A144-SOLAR CALL BOX Flexibility. Can be wall or pole mounted for convenient accessibility. The .090 thick, white, powder-coated aluminum enclosure measures 4H x 14W x 7.5D. Includes a 6-watt locator LED that converts to a strobe light when callbox is activated. Comes standard with a 10-watt solar panel and choice of large reflective vinyl message decal.	RRDN4590	505	\$3,275.00
A144-AC/DC CALL BOX Flexibility. Can be wall or pole mounted for convenient accessibility. The .090 thick, white, powder-coated aluminum enclosure measures 4H x 14W x 7.5D. Includes a 6-watt locator LED that converts to a strobe light when callbox is activated. Comes standard with a 10-watt solar panel and choice of large reflective vinyl message decal.	RRDN4591	505	\$3,175.00

Carrying Case(s)

Description	Nomenclature	APC	Price
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP Includes swivel belt loop and t-strap. 3.0" Snap NiCad or NiMH.	NNTN4115	271	\$60.00
LEATHER CASE W/HIGH ACTIVITY 2.5" SWIVEL BELT LOOP Includes swivel belt loop and t-strap. 2.5" Snap NiCad or NiMH.	NNTN4116	271	\$60.00
LEATHER CASE W/SNAP BELT LOOP & T-STRAP Includes snap belt loop and t-strap. For NiCad or NiMH.	NNTN4117	271	\$60.00

Charger

Description	Nomenclature	APC	Price
WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER Wall Mount Bracket for IMPRES Multi-Unit Charger	NLN7967	476	\$21.00
CHARGER, 110 VOLT, US PLUG	NTN1667	476	\$100.00

Commport Integrated Microphone/Receiver

Description	Nomenclature	APC	Price
REPLACEMENT CABLE FOR NTN1625 & NTN1722	NKN6508	115	\$34.50
REPLACEMENT RING PTT CABLE FOR NTN1663 & NTN1724	NKN6512	115	\$60.25
REPLACEMENT SNAP ON SIDE PTT CABLE FOR NTN1736 & NTN1737	NKN6525	115	\$75.00
COMMPORT WITH PALM PTT CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$419.00
COMMPORT WITH PTT ON RADIO ADAPTER CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00
COMMPORT WITH SNAP-ON SIDE PTT CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00

EAR MICROPHONE SYSTEMS

Description	Nomenclature	APC	Price
BODYSWITCH PUSH-TO-TALK ACCY	0180300E83	742	\$159.00

Earpieces

Description	Nomenclature	APC	Price
EAR MICROPHONE FOR STANDARD NOISE LEVELS, BLACK Designed to pick up the voice through bone vibrations directly in the ear canal. Complete system consists of an Ear microphone and the corresponding Radio Interface Module (PTT or VOX). For noise levels up to 95 db. Requires Interface Module. *HT750, HT1250 & PR1500 - Intrinsically Safe (FM) Note: VOX is not recommended for trunking operation.	BDN6677	742	\$198.00
EARBUD, MINI MICROPHONE AND PTT *MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM).	BDN6780	742	\$67.00
EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE) *HT1000, XTS 3000, requires BDN6676 (3.5mm adapter jack) that attaches to the radio. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM) *XTS 5000 & XTS 2500 requires BDN6676. Intrinsically Safe (FM). Assembled (receive only) with volume control & standard urethane earloop. *PR1500 - requires BDN6676 - Intrinsically Safe (FM)	BDN6781	742	\$27.00
BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	PMLN5464	742	\$395.00

Headsets

Description	Nomenclature	APC	Price
LT WT HEADSET W/ BOOM MIC TO BE WORN WITH HELMET OR SAFETY GLASSES Lightweight headset with boom microphone is to be worn on a helmet or safety glasses; included NKN6498 adapter cable (requires BDN6676 audio adapter.)	NMN1020	742	\$329.00
HEADSET LIGHTWEIGHT Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)	NMN6245	785	\$149.00
HEADSET LIGHTWEIGHT IN THE EAR Single Muff Lightweight Headset with In-Line PTT Switch, Earbud Style Receiver (requires BDN6676 audio adapter.) Intrinsically Safe (FM) *EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM).	NMN6246	785	\$129.00
MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM) Medium Weight Headset, Over the Head, with In-Line PTT - Noise Reduction Rating = 24dB	NMN6258	742	\$389.00
MED DUTY HEADSET,BEHIND-THE-HEAD, W/IN-LINE PTT-NRR= 24DB-INTRIN (FM) Medium Weight Headset, Behind the Head, with In-Line PTT - Noise Reduction Rating = 24dB	NMN6259	742	\$425.00
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.	RMN4049	742	\$225.00
RUGGED TEMPLE TRANSDUCER HEADSET Features a noise cancelling boom microphone and In-Line PTT	RMN5049	742	\$340.00

Microphones

Description	Nomenclature	APC	Price
RSM W/MAN DOWN BUTTON	RMN5038	372	\$120.00
PSM STRAIGHT CABLE 24 IN	RMN5073	372	\$160.00
This PSM is not compatible with VHF frequencies.			

Multi Unit Chargers

Description	Nomenclature	APC	Price
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	WPLN4108 R	785	\$788.00

Surveillance

Description	Nomenclature	APC	Price
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	BDN6664	742	\$40.00
1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved			
EARPIECE RECEIVE ONLY WITH EXTRA LOUD EARPHONE - BEIGE (SINGLE WIRE)	BDN6665	742	\$42.00
1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved			
EARPIECE RECEIVE ONLY WITH VOLUME CONTROL - BEIGE (SINGLE WIRE)	BDN6666	742	\$53.00
1-Wire Receive-Only Surveillance Kit with Volume Control and Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved			
EARPIECE WITH MICROPHONE & PTT COMBINED - BEIGE (2 WIRE)	BDN6667	742	\$114.00
2-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.			
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	BDN6668	742	\$135.00
3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.			
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	BDN6669	742	\$118.00
2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.			
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	BDN6670	742	\$150.00
3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.			
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	BDN6726	742	\$40.00
1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved			
RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	BDN6727	742	\$42.00
1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved			
EARPIECE RECEIVE ONLY WITH VOLUME CONTROL - BLACK (SINGLE WIRE)	BDN6728	742	\$53.00
1-Wire Receive-Only Surveillance Kit with Volume Control and Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.			

*XTS 3000 requires BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.
 *XTS 2500 & XTS 5000 requires new adapter. FM Approved.
 *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.
 *PR1500 requires BDN6676 adapter. FM Approved.

EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	BDN6729	742	\$114.00
2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 require BDN6676 adapter. FM Approved.			

EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	BDN6730	742	\$135.00
3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS requires PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.			

EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	BDN6731	742	\$118.00
2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.			

EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	BDN6732	742	\$150.00
3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.			

3-WIRE SURVEILLANCE KIT WITH MICROPHONE & PTT COMBINED, BEIGE	ZMN6031	742	\$177.00
3-Wire Surveillance Kit, Beige, Hirose Connector. *APX series require requires NNTN7869 Hirose Adapter. *PR1500 requires NTN8613 adapter.			

2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED	ZMN6032	476	\$143.00
2-Wire Surveillance Kit, Beige, Hirose Connector. Requires NNTN7869 Hirose Adapter. *PR1500 - requires NTN8613 adapter			

2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED - EXTRA LOUD	ZMN6038	476	\$149.00
3-Wire Surveillance Kit, with Extra Loud Earpiece, Beige, Hirose Connector. *APX series require NNTN7869 Hirose Adapter. *PR1500 requires NTN8613 adapter.			

SPKR MIC W XLOUD EARPIECE	ZMN6039	742	\$190.00
3-Wire Surveillance Kit, with Extra Loud Earpiece, Beige, Hirose Connector. *APX series require require NNTN7869 Hirose Adapter			

Manual(s)

Description	Nomenclature	APC	Price
PR1500/ASTRO BASIC SERVICE MANUAL	6881094C09	205	\$14.50
PR1500, XTS2500, XTS1500, MT1500 BASIC SERVICE MANUAL PAPER			
PR1500/ASTRO DETAILED SERVICE MANUAL	6881094C10	205	\$33.25
PR1500, XTS2500, XTS1500, MT1500 BASIC SERVICE MANUAL PAPER			

Data Compiled 16-Feb-2015 using DUP and all prices in USD



**PR1500
PORTABLE
VHF Model**

Features

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136-174 MHz	1-5W (Ships 5W)	AZ489FT3807		16K0F3E, 11K0F3E	90

Models

Description	Nomenclature	APC	Price
PR1500 136-174 MHZ, 1W - 5W, 32 CH	AAH79KDC9PW5	N 626	\$1,200.00

Options

Antenna

Description	Nomenclature	APC	Price
OMIT STANDARD VHF/UHF ANTENNA	H112JG	626	(\$3.50)
ADD: VHF 136-150.8 MHZ, WIDEBAND HELICAL (NAD6566)	H128BD	626	\$0.00
ADD: VHF 150.8-162 MHZ, HELICAL ANTENNA (NAD6567)	H129	626	\$0.00
ADD: VHF 136-174 MHZ, WIDEBAND DIPOLE 7.5" (8505518V01)	H150AN	626	\$0.00
ADD: VHF 162-174 MHZ, WIDEBAND HELICAL (NAD6568)	H65AY	626	\$0.00

Battery

Description	Nomenclature	APC	Price
IMPRES NIMH, 1700 MAH, 7.5V, INTRINS SAFE (NTN9857) IMPRES Battery	Q393BG	626	\$28.00

Belt Clip(s)

Description	Nomenclature	APC	Price
DEL: STANDARD BELT CLIP	H301CE	626	(\$5.00)

Charger

Description	Nomenclature	APC	Price
DEL: STANDARD CHARGER	H951FD	626	(\$35.00)
UNIVERSAL TRI-CHEMISTRY, SINGLE UNIT CHARGER (NTN1667)	QA00294AA	626	(\$20.00)

Service Options

Description	Nomenclature	APC	Price
ENH: 2 YR SFS LITE Provides hardware repair coverage for 2 years beyond the standard 2-year warranty for a total of 4 years of coverage. Repairs will be made at the Motorola Service Depot. Customer is responsible for inbound repair charges. No discounts are allowed on this option.	H885CJ	185	\$84.00
ENH: 1 YR SFS LITE Provides 1 year of extended hardware repair coverage beginning after the standard warranty period, Giving 3	Q884BP	185	\$44.00

years of warranty. Repairs will be made at the Radio Support Center. The customer pays for inbound shipping. No discounts are allowed on this option.

Packaging

Description	Nomenclature	APC	Price
BULK PACKAGING (MINIMUM 10 UNITS PER LINE ITEM)	H415ER	626	\$0.00

Accessories

Adapter

Description	Nomenclature	APC	Price
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$52.50
KEYLOAD ADAPTER The Surveillance/KEYLOAD ADAPTER NTN8613 allows XTS2500, XTS3000, XTS3500 and XTS5000 radios to be used with a ZMN6031, ZMN6032, ZMN6038 or ZMN6039 surveillance microphone and earpiece	NTN8613	476	\$89.25

Antenna

Description	Nomenclature	APC	Price
VHF WIDEBAND DIPOLE ANTENNA 7.5", 136-174 MHZ	8505518V01	432	\$24.00
VHF HELICAL ANTENNA, 136-150.8 MHZ	8505644V01	432	\$16.50
VHF HELICAL ANTENNA, 150.8-162 MHZ	8505644V02	432	\$16.50
VHF HELICAL ANTENNA, 162-178 MHZ	8505644V03	361	\$16.50

Battery

Description	Nomenclature	APC	Price
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	NNTN6263	453	\$137.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	NTN9857C	453	\$132.00
IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	NTN9858C	453	\$112.00

Belt Clip(s)

Description	Nomenclature	APC	Price
2" SPRING BELT CLIP For MTH800 - to be used in conjunction with bracket U/slot FTN6302	HLN9844	577	\$11.50

Belt Loops

Description	Nomenclature	APC	Price
CARRY CASE SHOULDER STRAP Adjustable Nylon Carrying Strap	NTN5243A	271	\$23.00

Cable(s)

Description	Nomenclature	APC	Price
CABLE- PROGRAMMING USB DOES NOT require Smart Rib. This cable MUST be ordered or the RKN4106 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No RIB Box required.	RKN4105	261	\$237.00
CABLE- PROGRAMMING, RS232 This cable MUST be ordered or the RKN4105 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No RIB Box required.	RKN4106	261	\$251.00

Call Boxes

Description	Nomenclature	APC	Price
A1- SOLAR CALL BOX	RRDN4362A	505	\$2,565.00

Field programmable. Mounts on a wall, or on a PVC or aluminum stanchion. Solar or AC/DC power. The .090 thick aluminum enclosure with white powder coat measures 13"H x 9.5"W x 6.5"D. Provides protection against dust and falling rain. For indoor and outdoor use. Includes antenna and set of small reflective decals.

A1-AC/DC CALL BOX RRDN4363A 505 \$2,465.00

Field programmable. Mounts on a wall, or on a PVC or aluminum stanchion. Solar or AC/DC power. The .090 thick aluminum enclosure with white powder coat measures 13"H x 9.5"W x 6.5"D. Provides protection against dust and falling rain. For indoor and outdoor use. Includes antenna and set of small reflective decals.

A1-SOLAR W/ ALUMINUM STANCHION CALL BOX RRDN4365A 505 \$3,395.00

Field programmable. Mounts on a wall, or on a PVC or aluminum stanchion. Solar or AC/DC power. The .090 thick aluminum enclosure with white powder coat measures 13"H x 9.5"W x 6.5"D. Provides protection against dust and falling rain. For indoor and outdoor use. Includes antenna and set of small reflective decals.

ACB-SOLAR CALL BOX RRDN4367A 505 \$2,775.00

Push-to-talk communication. No door to open. The indoor/outdoor wall mount aluminum enclosure is .090 thick with white powder coat. It measures 20"H x 14"W x 7.5"D with a thick, clear Lexan face-plate cover. Includes activation ringer, antenna and set of small reflective decals.

ACB-AC/DC CALL BOX RRDN4368A 505 \$2,675.00

Push-to-talk communication. No door to open. The indoor/outdoor wall mount aluminum enclosure is .090 thick with white powder coat. It measures 20"H x 14"W x 7.5"D with a thick, clear Lexan face-plate cover. Includes activation ringer, antenna and set of small reflective decals.

A1410-SOLAR CALL BOX RRDN4369A 505 \$3,400.00

Self-standing. The .090 thick aluminum stanchion with white powder coat measures 10"H x 14"W x 7.5"D. Thick, clear Lexan faceplate cover and includes an activation ringer, antenna and set of large reflective decals. 10 watt solar panel provides additional charging power to allow the beacon/locator light to function 24 hours a day.

A1410-AC/DC CALL BOX RRDN4370A 505 \$3,300.00

Self-standing. The .090 thick aluminum stanchion with white powder coat measures 10"H x 14"W x 7.5"D. Thick, clear Lexan faceplate cover and includes an activation ringer, antenna and set of large reflective decals. 10 watt solar panel provides additional charging power to allow the beacon/locator light to function 24 hours a day.

A106.5-SOLAR CALL BOX RRDN4588 505 \$2,795.00

Freestanding. Solar or AC/DC power. The .090 thick, white powder-coated aluminum box measures 6.5H x 10W x 5D. Includes antenna and choice of reflective vinyl message decal.

A106.5-AC/DC CALL BOX RRDN4589 505 \$2,695.00

Freestanding. Solar or AC/DC power. The .090 thick, white powder-coated aluminum box measures 6.5H x 10W x 5D. Includes antenna and choice of reflective vinyl message decal.

A144-SOLAR CALL BOX RRDN4590 505 \$3,275.00

Flexibility. Can be wall or pole mounted for convenient accessibility. The .090 thick, white, powder-coated aluminum enclosure measures 4H x 14W x 7.5D. Includes a 6-watt locator LED that converts to a strobe light when callbox is activated. Comes standard with a 10-watt solar panel and choice of large reflective vinyl message decal.

A144-AC/DC CALL BOX RRDN4591 505 \$3,175.00

Flexibility. Can be wall or pole mounted for convenient accessibility. The .090 thick, white, powder-coated aluminum enclosure measures 4H x 14W x 7.5D. Includes a 6-watt locator LED that converts to a strobe light when callbox is activated. Comes standard with a 10-watt solar panel and choice of large reflective vinyl message decal.

Carrying Case(s)

Description	Nomenclature	APC	Price
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP Includes swivel belt loop and t-strap. 3.0" Snap NiCad or NiMH.	NNTN4115	271	\$60.00
LEATHER CASE W/HIGH ACTIVITY 2.5" SWIVEL BELT LOOP Includes swivel belt loop and t-strap. 2.5" Snap NiCad or NiMH.	NNTN4116	271	\$60.00
LEATHER CASE W/SNAP BELT LOOP & T-STRAP Includes snap belt loop and t-strap. For NiCad or NiMH.	NNTN4117	271	\$60.00

Charger

Description	Nomenclature	APC	Price
WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER Wall Mount Bracket for IMPRES Multi-Unit Charger	NLN7967	476	\$21.00
CHARGER, 110 VOLT, US PLUG	NTN1667	476	\$100.00

Commport Integrated Microphone/Receiver

Description	Nomenclature	APC	Price
REPLACEMENT CABLE FOR NTN1625 & NTN1722	NKN6508	115	\$34.50
REPLACEMENT RING PTT CABLE FOR NTN1663 & NTN1724	NKN6512	115	\$60.25
REPLACEMENT SNAP ON SIDE PTT CABLE FOR NTN1736 & NTN1737	NKN6525	115	\$75.00

COMMPORT WITH PALM PTT CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$419.00
COMMPORT WITH PTT ON RADIO ADAPTER CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00
COMMPORT WITH SNAP-ON SIDE PTT CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00

EAR MICROPHONE SYSTEMS

Description	Nomenclature	APC	Price
BODYSWITCH PUSH-TO-TALK ACCY	0180300E83	742	\$159.00

Earpieces

Description	Nomenclature	APC	Price
EAR MICROPHONE FOR STANDARD NOISE LEVELS, BLACK Designed to pick up the voice through bone vibrations directly in the ear canal. Complete system consists of an Ear microphone and the corresponding Radio Interface Module (PTT or VOX). For noise levels up to 95 db. Requires Interface Module. *HT750, HT1250 & PR1500 - Intrinsically Safe (FM) Note: VOX is not recommended for trunking operation.	BDN6677	742	\$198.00
EARBUD, MINI MICROPHONE AND PTT *MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM).	BDN6780	742	\$67.00
EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE) *HT1000, XTS 3000, requires BDN6676 (3.5mm adapter jack) that attaches to the radio. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM) *XTS 5000 & XTS 2500 requires BDN6676. Intrinsically Safe (FM). Assembled (receive only) with volume control & standard urethane earloop. *PR1500 - requires BDN6676 - Intrinsically Safe (FM)	BDN6781	742	\$27.00
BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	PMLN5464	742	\$395.00

Headsets

Description	Nomenclature	APC	Price
LT WT HEADSET W/ BOOM MIC TO BE WORN WITH HELMET OR SAFETY GLASSES Lightweight headset with boom microphone is to be worn on a helmet or safety glasses; included NKN6498 adapter cable (requires BDN6676 audio adapter.)	NMN1020	742	\$329.00
HEADSET LIGHTWEIGHT Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)	NMN6245	785	\$149.00
HEADSET LIGHTWEIGHT IN THE EAR Single Muff Lightweight Headset with In-Line PTT Switch, Earbud Style Receiver (requires BDN6676 audio adapter.) Intrinsically Safe (FM) *EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM).	NMN6246	785	\$129.00
MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM) Medium Weight Headset, Over the Head, with In-Line PTT - Noise Reduction Rating = 24dB	NMN6258	742	\$389.00
MED DUTY HEADSET, BEHIND-THE-HEAD, W/IN-LINE PTT-NRR= 24DB-INTRIN (FM) Medium Weight Headset, Behind the Head, with In-Line PTT - Noise Reduction Rating = 24dB	NMN6259	742	\$425.00
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.	RMN4049	742	\$225.00
RUGGED TEMPLE TRANSDUCER HEADSET Features a noise cancelling boom microphone and In-Line PTT	RMN5049	742	\$340.00

Microphones

Description	Nomenclature	APC	Price
RSM W/MAN DOWN BUTTON	RMN5038	372	\$120.00

Multi Unit Chargers

Description	Nomenclature	APC	Price
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	WPLN4108 R	785	\$788.00

Surveillance

Description	Nomenclature	APC	Price
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE) 1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6664	742	\$40.00
EARPIECE RECEIVE ONLY WITH EXTRA LOUD EARPHONE - BEIGE (SINGLE WIRE) 1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6665	742	\$42.00
EARPIECE RECEIVE ONLY WITH VOLUME CONTROL - BEIGE (SINGLE WIRE) 1-Wire Receive-Only Surveillance Kit with Volume Control and Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6666	742	\$53.00
EARPIECE WITH MICROPHONE & PTT COMBINED - BEIGE (2 WIRE) 2-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6667	742	\$114.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE) 3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6668	742	\$135.00
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE) 2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6669	742	\$118.00
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE) 3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6670	742	\$150.00
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE) 1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6726	742	\$40.00
RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE) 1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm	BDN6727	742	\$42.00

audio jack, audio adapter is not required.

*XTS 2500 & XTS 5000 require new adaptor. FM Approved.

*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.

*PR1500 requires BDN6676 adapter. FM Approved

EARPIECE RECEIVE ONLY WITH VOLUME CONTROL - BLACK (SINGLE WIRE) BDN6728 742 \$53.00

1-Wire Receive-Only Surveillance Kit with Volume

Control and Earpiece, Black, 3.5mm Threaded.

*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.

*XTS 3000 requires BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.

*XTS 2500 & XTS 5000 requires new adapter. FM Approved.

*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.

*PR1500 requires BDN6676 adapter. FM Approved.

EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE) BDN6729 742 \$114.00

2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded.

*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.

*XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.

*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.

*PR1500 require BDN6676 adapter. FM Approved.

EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE) BDN6730 742 \$135.00

3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded.

*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.

*HT1000 & XTS 3000 require BDN6676 adapter.

*XTS 2500 & XTS 5000 require new adaptor. FM Approved.

*EX500 & EX600 XLS requires PMLN4455 adapter. FM Approved.

*PR1500 requires BDN6676 adapter. FM Approved.

EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE) BDN6731 742 \$118.00

2-Wire Receive-Only Surveillance Kit with Extra-

Loud Earpiece, Black, 3.5mm Threaded.

*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.

*HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved.

*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.

*PR1500 requires BDN6676 adapter. FM Approved.

EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE) BDN6732 742 \$150.00

3-Wire Receive-Only Surveillance Kit with Extra-

Loud Earpiece, Black, 3.5mm Threaded.

*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.

*HT1000 & XTS 3000 require BDN6676 adapter.

*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.

*PR1500 requires BDN6676 adapter. FM Approved.

3-WIRE SURVEILLANCE KIT WITH MICROPHONE & PTT COMBINED, BEIGE ZMN6031 742 \$177.00

3-Wire Surveillance Kit, Beige, Hirose Connector.

*APX series require requires NNTN7869 Hirose Adapter.

*PR1500 requires NTN8613 adapter.

2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED ZMN6032 476 \$143.00

2-Wire Surveillance Kit, Beige, Hirose Connector. Requires NNTN7869 Hirose Adapter.

*PR1500 - requires NTN8613 adapter

2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED - EXTRA LOUD ZMN6038 476 \$149.00

3-Wire Surveillance Kit, with Extra Loud Earpiece, Beige, Hirose Connector.

*APX series require NNTN7869 Hirose Adapter.

*PR1500 requires NTN8613 adapter.

SPKR MIC W XLOAD EARPIECE ZMN6039 742 \$190.00

3-Wire Surveillance Kit, with Extra Loud Earpiece, Beige, Hirose Connector.

*APX series require require NNTN7869 Hirose Adapter

Manual(s)

Description	Nomenclature	APC	Price
PR1500/ASTRO BASIC SERVICE MANUAL	6881094C09	205	\$14.50
PR1500, XTS2500, XTS1500, MT1500 BASIC SERVICE MANUAL PAPER			
PR1500/ASTRO DETAILED SERVICE MANUAL	6881094C10	205	\$33.25
PR1500, XTS2500, XTS1500, MT1500 BASIC SERVICE MANUAL PAPER			

Data Compiled 16-Feb-2015 using DUP and all prices in USD

XTVA
XTS Vehicular Adapter
for XTS 3000™ and XTS 5000™ Portable Radios

XTVA Last Order Entry Date : September 1, 2014

XTVA Last Scheduled Ship Date: September 30, 2014

[XTVA Notification of Intent to Cancel Memo](#)

[Ship Card](#)

General Information and Ordering Requirements

The XTS Vehicular Adapter (XTVA) is compatible with all versions of the XTS 3000 and XTS 5000 series portable radios **not compatible with units equipped with Q242 Digital VSELP**. The XTVA unit provides the portable with in-vehicle radio battery charging (with the ability to transmit and receive) and potential mobile performance (with an optional RFPA)

NOTE: All IMBE users (Q806) and Analog users (Q241) with a ship date prior to Host versions 5.6.9 (4/1/99) will require a FLASHport® upgrade for each subscriber to obtain full XTVA capability. All units shipping with Host version 5.6.0 or later do not require the upgrade.

XTVA CONSOLES

XTVA models include a XTVA console, power supply cable and a swivel trunion mounting kit. For XTVA operation, a microphone and an RF switch (for each radio) are required. The XTVA is available in a closed faced Model which covers the face of the radio, and an open faced Model that allows access to the display and first two rows of keys when using a ASTRO XTS 3000 or XTS 5000 Model II or III radio Both XTVA models are available with either a mini-UHF or a BNC connector. (N1799, N2003, N2001, N2002)

NOTE: The XTVA will only work in an IMBE system. VSELP compatibility is not available.

XTVA ACCESSORIES
(Accessories required for XTVA operation)

NOTE: The HHCH is compatible with ASTRO XTS 3000 or XTS 5000 Model II or III radios, not compatible with Model I. The HHCH display information and keypad buttons have the same functions as the ASTRO XTS 3000 or XTS 5000 Model II or III radios. A microphone is required to operate the XTVA.

NOTE: The wrench tool is required to apply the RF switch. It is recommended to order 1 tool per 10 radios ordered.

POWER AMPLIFIERS

The Power Amplifier Kits include a power amplifier and a 17 ft. RF/DC cable kit (NKN6516). The RFPA antenna

connector is a mini-UHF. Order an antenna kit containing a mini-UHF antenna connector for RFPA Operation. Contact the Aftermarket and Accessories Division for pricing and ordering information regarding the antenna kit with the mini-UHF connector.

- [ASTRO Digital XTS3000 800 MHz](#)
- [ASTRO Digital XTS3000 UHF Band](#)
- [ASTRO Digital XTS3000 VHF Band](#)
- [ASTRO Digital XTS5000 UHF](#)
- [ASTRO Digital XTS5000 VHF](#)
- [ASTRO Digital XTS5000 800 MHz](#)

[XTVA XTS/MSP Vehicular Adapter Catalog Sheet](#)

Models

Description	Nomenclature	APC	Price
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Options

Accessories

Data Compiled 16-Feb-2015 using DUP and all prices in USD

Mobile Vehicular Adapter

MTVA CONSOLE

[Ship Card](#)

General Information

The basic MTVA console is compatible with:

HT1000 16 channel models

JT1000

MT2000

MTS 2000

(MTX 8000, MTX 9000 selected models only)

PAC-RT systems

The package includes:

lockable holder

control unit

compact microphone

mounting hardware

cables

Within the control unit is a battery charger that will rapid charge batteries in two hours. Order the mobile antenna separately from Aftermarkets Accessory Division. The MTVA uses a mini UHF connector. See catalog sheet R3-4-160 for additional information.

NOTE: BASIC MTVA CANNOT BE RETROFITTED IN THE FIELD WITH POWER AMPLIFIER. POWER AMPLIFIER OPTION MUST BE ORIGINALLY ORDERED FROM THE FACTORY.

Models

Description	Nomenclature	APC	Price
MTVA VEHICULAR ADAPTER	N1671	476	\$450.00

Options

Accessories

Data Compiled 16-Feb-2015 using DUP and all prices in USD

**MT 1500 Portable Series UHF Range 1 and UHF Range 2_MHz Band
Wide Area SmartZone® "Handie-Talkie™" Radio
Trunked Radio Systems**

MT 1500 Last Order Entry Date : October 31, 2014

MT 1500 Last Scheduled Ship Date: November 30, 2014

[MT 1500 Notification of Intent to Cancel Memo](#)

**** Alternative product includes the APX Series ** – [APX1000 \(Available - December 2014\)](#)**

Special Note for United States - State & Local Markets only:

In accordance with FCC mandate, the MT 1500 UHF R1 & UHF R2 products operating on Part 90 frequencies will be restricted to 12.5kHz or narrower operations on Jan. 1, 2013

[Ship Card](#)

Features

All MT 1500 packaged models include the following hardware features:

- 3 Programmable Side Buttons
- Orange Emergency Button
- 16 Position Mode Rotary Select Switch
- On/Off Volume
- Low Battery Alert Tone
- Antenna (Bandsplit and Type Dependent on Band Option)
- Noise Reduction Software
- 1 Top Mounted Programmable Three Position Concentric Switch
- Weather Sealed Universal Connector
- Bi-Color LED Indicator
- Nickel Metal Hydride Battery
- Detachable Belt Clip
- Audio Gain Control
- 1 Year Warranty

General Information

The MT 1500 Portable is offered in model I only:

Hardware Model	Modes	Alphanumeric Display Lines/Characters Per Line	Keypad	Navigation Pad
MT 1500 Model I	48	None	None	No

Operating Modes

MT 1500 Radio Model is capable of operation in two different voice communication modes:

- 3600 Analog Trunking
- MDC 1200 Analog Conventional

The MT 1500 Portable is capable of 48 modes when the programmable Concentric Top Mounted Switch is used for Zone Operation. The mode of operation is programmed on a channel-by-channel basis.

RELATIVE RADIATED RECEIVE SENSITIVITY

The relative radiated receive sensitivity test (formerly referred to as self-quieters) measures the sensitivity from 380-520 MHz in 12.5kHz steps. The radio is set to 25kHz channel mode. These measurements were taken in a shielded environment so that degraded sensitivity at discrete frequencies is known to be due to the radio's self-interference (as opposed to external interference). The following list contains frequencies which were consistently found to have severely degraded performance on all measured radios (secure and non-secure): 381.535 (secure), 386.400, 389.490 (secure), 393.195, 396.000, 396.300, 405.380 (secure), 413.330 (secure), 414.000, 415.500, 417.770, 420.000, 421.280 (secure), 426.600, 429.230 (secure), 432.000, 432.6125, 434.700, 436.800, 442.3438, 450.000, 453.600, 456.000, 460.800, 462.000, 466.920, 468.000, 470.400, 474.000, 480.000, 486.000, 487.200, 491.490, 492.000 (secure), 497.6950 (secure), 498.000, 502.200 (secure), 504.000, 512.400, 516.000, 516.070, 517.440, 519.120

FM INFORMATION

The MT 1500 portable radio when properly equipped with options H223 and Q393 are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, II, III, Groups C, D, E, F, G, T3C without encryption modules.

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Ordering Requirements

Ordering procedure is as follows:

- 1 H67QDC9PW5 N MT 1500 UHF Range 1 Portable
- 1 H67SDC9PW5 N MT 1500 UHF Range 2 Portable
- 1A Qxxx System Software
- 1B etc

1. Order the MT 1500 Portable Series as the main line item (H67QDC9PW5 N) UHF R1 or (H67SDC9PW5 N) UHF R2.
2. Each hardware model MUST be ordered with one Operating Mode. One Operating Mode Package MUST be ordered for each radio unit ordered. Choose between 3600 Trunking or MDC 1200 Analog Conventional.

RADIO WIDE FEATURES	
<i>Maximum Modes</i>	
MT 1500 Model 1	48
Analog Operation	Yes
12.5/20/25 KHz Programmable Channels	Yes
Secure Capable	No
One Touch Operation	No
Real Time Clock	No
Surveillance Mode	No
Keypad Lock	No
Radio Lock	Yes
Smart Battery (NiCAD Only)	Future
Radio Wide Transmit Inhibit	No
Time Out Timer	Yes
FLASHport®	No
ANALOG CONVENTIONAL FEATURES	
Conventional Features are additional radio wide features beyond those specified above.	
CSQ/PL/DPL	Yes
Dual Priority Channel Scan	No
Adaptive Power Control	Yes
Repeater/Talkaround Operation	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes
Smart PTT	Yes
Monitor	Yes
DTMF Tone Generation	N/A
MDC-1200 Emergency Call	Yes
MDC-1200 Silent Emergency Alarm	Yes
MDC-1200 PTT-ID Encode	Yes
3600 Trunking Features	
Maximum Number of Trunked Systems - 48	Yes
Talkgroup Calls	Yes
PTT ID (Digital Only)	Model I - Encode Only Model 1.5 - Encode and Decode
Call Alert Decode Only	Yes
Dual Mode Scan	Yes
Failsoft by Talkgroup	Yes
Telephone Interconnect Encode/Decode	No
System Wide Call (Receive Only)	Yes

Selective Radio Inhibit	Yes
Priority Scan	Yes
Dynamic Regrouping	Yes
Status/Message	No
Private/Enhanced Conversation (Decode only)	Yes
Radio Check	Future
Remote Monitor/Radio Trace	No
Reprogram Request	No
Trunking Features	
Voice on Control	Future
SmartZone® Automatic Site Registration	Yes
SmartZone® RSSI Operation	Yes
SmartZone® Preferred Site	Yes
SmartZone® Forced Site Search	Yes
SmartZone® Site Lock/Unlock	Yes
SmartZone® Adjacent Control Channel OSW	Yes
Emergency Alarm Call Receive Indication	Yes

FCC Information

Band/Model	Power Output	Transmitter Type Acceptance	Emissions	Applicable Rules
UHF Range 1 (380-470 MHz)	1 to 5 Watts	AZ489FT3807	11K0F3E, 11K0F2D, 11K0F1D, 15K0F1D, 15K0F2D, 16K0F3E, 20K0F1E, 20K0F1D, 8K10F1E, 8K10F1D	22, 74, 90
UHF Range 2 (450-520 MHz)	1 to 5 Watts	AZ489FT3807	11K0F3E, 11K0F2D, 11K0F1D, 15K0F1D, 15K0F2D, 16K0F3E, 20K0F1E, 20K0F1D, 8K10F1E, 8K10F1D	22, 74, 90

SUB-BAND PERFORMANCE

UHF R1 MHz 380-470 MHz in all models
 UHF R2 MHz 450-520 MHz in all models

[MT 1500 Catalog Sheet](#)

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

Models

Description	Nomenclature	APC	Price
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Options

Accessories

Adapter

Description 3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH For use with 1, 2 & 3 wire earpiece. PSM RF ADPT	Nomenclature BDN6676 RLN5918	APC 742 372	Price \$52.50 \$36.00
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Antenna

Description ANTENNA, 380-435MHZ UHF HELICAL ANTENNA, 470-520MHZ UHF HELICAL	Nomenclature NAE6546 NAE6548	APC 402 402	Price \$16.50 \$16.50
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Battery

Description	Nomenclature	APC	Price
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IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	NNTN6263	453	\$137.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	NTN9857C	453	\$132.00
IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	NTN9858C	453	\$112.00

Belt Clip(s)

Description	Nomenclature	APC	Price
BELT CLIP 2 1/4"	HLN6853	271	\$11.50

Cable(s)

Description	Nomenclature	APC	Price
CABLE- PROGRAMMING USB DOES NOT require Smart Rib. This cable MUST be ordered or the RKN4106 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No RIB Box required.	RKN4105	261	\$237.00
CABLE- PROGRAMMING, RS232 This cable MUST be ordered or the RKN4105 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No RIB Box required.	RKN4106	261	\$251.00

Carrying Case(s)

Description	Nomenclature	APC	Price
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP Includes swivel belt loop and t-strap. 3.0" Snap NiCad or NIMH.	NNTN4115	271	\$60.00
LEATHER CASE W/HIGH ACTIVITY 2.5" SWIVEL BELT LOOP Includes swivel belt loop and t-strap. 2.5" Snap NiCad or NIMH.	NNTN4116	271	\$60.00
LEATHER CASE W/SNAP BELT LOOP & T-STRAP Includes snap belt loop and t-strap. For NiCad or NIMH.	NNTN4117	271	\$60.00
LEATHER T-STRAP, PLAIN ACTION SNAP	NTN8383	476	\$10.50
LEATHER T-STRAP, HARD ACTION SNAP WITH ADDITIONAL STRENGTH AT SNAP	NTN8384	476	\$10.50

Charger

Description	Nomenclature	APC	Price
CHARGER, 110 VOLT, US PLUG	NTN1667	476	\$100.00
CHARGER, IMPRES RAPID RATE, 110V US PLUG Rapid charger, NiCad, NiMH, & Lithium batteries are for ALL XTS, MTS, MT, JT, HT, and Saber batteries. (WPLN4114AR, & USA 3004209T03 Cord)	NTN1873	476	\$165.00
CHARGER, IMPRES RAPID RATE, 220V EURO PLUG Rapid charger, NiCad, NiMH, & Lithium batteries are for ALL XTS, MTS, MT, JT, and HT (WPLN4114AR, 2 prong Euro 3004209T01 Cord)	NTN1874	785	\$165.00
VEHICULAR TRAVEL CHARGER Utilizes the cigarette lighter adapter. INCLUDES: mounting bracket, custom coil cord, and charger. Travel charger is best used and compatible with 2" belt clip.	RLN4884	785	\$95.00
IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	WPLN4112BR	785	\$165.00

Earpieces

Description	Nomenclature	APC	Price
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE UL Approved	AARLN4885	742	\$25.00
EAR MICROPHONE FOR STANDARD NOISE LEVELS, BLACK Designed to pick up the voice through bone vibrations directly in the ear canal. Complete system consists of an Ear microphone and the corresponding Radio Interface Module (PTT or VOX). For noise levels up to 95 db. Requires Interface Module. *HT750, HT1250 & PR1500 - Intrinsicly Safe (FM) Note: VOX is not recommended for trunking operation.	BDN6677	742	\$198.00
EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE) *HT1000, XTS 3000, requires BDN6676 (3.5mm adapter jack) that attaches to the radio. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsicly Safe (FM) *XTS 5000 & XTS 2500 requires BDN6676. Intrinsicly Safe (FM). Assembled (receive only) with volume control & standard urethane earloop. *PR1500 - requires BDN6676 - Intrinsicly Safe (FM)	BDN6781	742	\$27.00
D-SHELL RX-ONLY EARPIECE(3.5MM)	PMLN4620A	742	\$19.00
BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	PMLN5464	742	\$395.00
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	RLN6230A	742	\$32.00
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	RLN6241A	742	\$20.00
QUICK DISCONNECT ACOUSTIC TUBE	RLN6242A	742	\$7.90
EAR RCVR W/COIL CBL&3.5MM PLUG	WADN4190B	742	\$43.00

Headsets

Description	Nomenclature	APC	Price
MED DUTY HEADSET,BEHIND-THE-HEAD, W/IN-LINE PTT-NRR= 24DB-INTRIN (FM) Medium Weight Headset, Behind the Head, with In-Line PTT - Noise Reduction Rating = 24dB	NMN6259	742	\$425.00
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.	RMN4049	742	\$225.00
RUGGED TEMPLE TRANSDUCER HEADSET Features a noise cancelling boom microphone and In-Line PTT	RMN5049	742	\$340.00

Microphones

Description	Nomenclature	APC	Price
REMOTE SPEAKER MICROPHONE, IP57	PMMN4038A	372	\$88.50
RSM W/MAN DOWN BUTTON	RMN5038	372	\$120.00

Multi Unit Chargers

Description	Nomenclature	APC	Price
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	WPLN4108 R	785	\$788.00

Public Safety Microphone(s)

Description	Nomenclature	APC	Price
PSM STRAIGHT CABLE 30IN	RMN5072B	372	\$160.00
PSM STRAIGHT CABLE 24IN	RMN5073B	372	\$160.00
PSM STRAIGHT CABLE 18IN	RMN5074B	372	\$160.00

Service

Description	Nomenclature	APC	Price
HOUSING ELIMINATOR, XTS 2500, XTS 1500	8180384M37	261	\$500.00
BATTERY ELIMINATOR CABLE	AA0180305G54	261	\$127.00

Surveillance

Description	Nomenclature	APC	Price
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE) 1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6664	742	\$40.00
EARPIECE RECEIVE ONLY WITH EXTRA LOUD EARPHONE - BEIGE (SINGLE WIRE) 1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6665	742	\$42.00
EARPIECE RECEIVE ONLY WITH VOLUME CONTROL - BEIGE (SINGLE WIRE) 1-Wire Receive-Only Surveillance Kit with Volume Control and Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6666	742	\$53.00
EARPIECE WITH MICROPHONE & PTT COMBINED - BEIGE (2 WIRE) 2-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6667	742	\$114.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE) 3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6668	742	\$135.00
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE) 2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6669	742	\$118.00
EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BEIGE (3 WIRE) 3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved	BDN6670	742	\$150.00
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE) 1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6726	742	\$40.00
EARPIECE RECEIVE ONLY WITH VOLUME CONTROL - BLACK (SINGLE WIRE) 1-Wire Receive-Only Surveillance Kit with Volume Control and Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 3000 requires BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 requires new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6728	742	\$53.00
EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE) 2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 require BDN6676 adapter. FM Approved	BDN6729	742	\$114.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE) 3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS requires PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6730	742	\$135.00
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE) 2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.	BDN6731	742	\$118.00

*HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved.
 *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.
 *PR1500 requires BDN6676 adapter. FM Approved.
 EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)
 3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded.
 *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.
 *HT1000 & XTS 3000 require BDN6676 adapter.
 *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.
 *PR1500 requires BDN6676 adapter. FM Approved.

BDN6732 742 \$150.00

UNDEFINED

Description

ABC LABEL REPLACEMENT KIT - GREEN
 ABC LABEL REPLACEMENT KIT - BLUE
 ABC LABEL REPLACEMENT KIT - YELLOW
 ABC LABEL REPLACEMENT KIT -COOLGRAY
 ABC LABEL REPLACEMENT KIT - RED

Nomenclature	APC	Price
PMLN5159A	140	\$20.00
PMLN5160A	140	\$20.00
PMLN5161A	140	\$20.00
PMLN5162A	140	\$20.00
PMLN5163A	140	\$20.00

Manual(s)

Description

PR1500/ASTRO BASIC SERVICE MANUAL
 PR1500, XTS2500, XTS1500, MT1500 BASIC SERVICE MANUAL PAPER
 PR1500/ASTRO DETAILED SERVICE MANUAL
 PR1500, XTS2500, XTS1500, MT1500 BASIC SERVICE MANUAL PAPER
 MANUAL CD SERVICE ENGLISH XTS 1500, 2500, AND MT 1500
 XTS2500, XTS1500, MT1500 BASIC SERVICE MANUAL PAPER
 MANUAL CD SERVICE AND THEORY ENGLISH XTS 1500, 2500, AND MT 1500
 XTS2500, XTS1500, MT1500 BASIC SERVICE MANUAL PAPER
 XTS/MT1.5K,XTS2.5KM1,1.5,2,3CD UG B

Nomenclature	APC	Price
6881094C09	205	\$14.50
6881094C10	205	\$33.25
9985899D01	001	\$11.00
9985900D01	207	\$33.50
PMLN4940B	205	\$21.00

Data Compiled 16-Feb-2015 using DUP and all prices in USD

**MT 1500 Portable Series VHF Band
Wide Area SmartZone® "Handie-Talkie™" Radio
Trunked Radio Systems**

MT 1500 Last Order Entry Date : October 31, 2014

MT 1500 Last Scheduled Ship Date: November 30, 2014

[MT 1500 Notification of Intent to Cancel Memo](#)

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[Ship Card](#)

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All MT 1500 packaged models include the following hardware features:

- 3 Programmable Side Buttons
- Orange Emergency Button
- 16 Position Mode Rotary Select Switch
- On/Off Volume
- Low Battery Alert Tone
- Antenna (Bandsplit and Type Dependent on Band Option)
- Noise Reduction Software
- 1 Top Mounted Programmable Three Position Concentric Switch
- Weather Sealed Universal Connector
- Bi-Color LED Indicator
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- Detachable Belt Clip
- Audio Gain Control
- 1 Year Warranty

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The MT 1500 Portable is offered in model I only:

Hardware Model	Modes	Alphanumeric Display Lines/Characters Per Line	Keypad	Navigation Pad
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MT 1500 Radio Model is capable of operation in two different voice communication modes:

- 3600 Analog Trunking
- MDC 1200 Analog Conventional

The MT 1500 Portable is capable of 48 modes when the programmable Concentric Top Mounted Switch is used for Zone Operation. The mode of operation is programmed on a channel-by-channel basis.

RELATIVE RADIATED RECEIVE SENSITIVITY

The relative radiated receive sensitivity test (formerly referred to as self-quieters) measures the sensitivity from 136.05MHz to 173.975MHz in 12.5kHz steps. The radio is set to 25kHz channel mode. These measurements were taken in a shielded environment so that degraded sensitivity at the discrete frequencies is known to be due to the radio's self-interference (as opposed to external interference.) The following list contains frequencies which were consistently found to have severely degraded performance on all measured radios: 147.4450, 147.4475, 147.4500, 151.1975, 151.2000, 153.6000, 161.9975, 162.000, 162.0025, 165.8975, 165.9000, 165.9025, 167.9975, 168.000, 168.0025, 172.0200, 172.0225.

FM INFORMATION

The XTS 2500 portable radio when properly equipped with options H223 and Q393 are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, II, III, Groups C, D, E, F, G, T3C without encryption modules.

The XTS 2500 portable radio when properly equipped with options H223 and Q393 are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, Class II, Class III, Groups D, F, G, T3C with encryption modules.

Ordering Requirements

Ordering procedure is as follows:

1	H67KDC9PW5 N	MT 1500 Portable
1A	Qxxx	System Software
1B	etc	

1. Order the MT 1500 Portable Series as the main line item (H67KDC9PW5 N).
2. Each hardware model MUST be ordered with one Operating Mode. One Operating Mode Package MUST be ordered for each radio unit ordered. Choose between 3600 Trunking or MDC 1200 Analog Conventional.

RADIO WIDE FEATURES	
Maximum Modes	
MT 1500 Model 1	48
Analog Operation	Yes
12.5/20/25 KHz Programmable Channels	Yes
Secure Capable	No
One Touch Operation	No
Real Time Clock	No
Surveillance Mode	No
Keypad Lock	No
Radio Lock	Yes
Smart Battery (NiCAD Only)	Future
Radio Wide Transmit Inhibit	No
Time Out Timer	Yes
FLASHport®	No
ANALOG CONVENTIONAL FEATURES	
Conventional Features are additional radio wide features beyond those specified above.	
CSQ/PL/DPL	Yes
Dual Priority Channel Scan	No
Adaptive Power Control	Yes
Repeater/Talkaround Operation	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes
Smart PTT	Yes
Monitor	Yes
DTMF Tone Generation	N/A
MDC-1200 Emergency Call	Yes
MDC-1200 Silent Emergency Alarm	Yes
MDC-1200 PTT-ID Encode	Yes
MDC Repeater Access	Yes
MDC Request to Talk	Yes
MDC Status, Status Request, Message	Yes
3600 TRUNKING FEATURES	
Maximum Number of Trunked Systems - 48	Yes
Talkgroup Calls	Yes
PTT ID (Digital Only)	Model 1 - Encode Only Model 1.5 - Encode and Decode
Call Alert™ Decode Only	Yes
Dual Mode Scan	Yes
Failsoft by Talkgroup	Yes
Telephone Interconnect Encode/Decode	No
System Wide Call (Receive Only)	Yes
Selective Radio Inhibit	Yes

Priority Scan	Yes
Dynamic Regrouping	Yes
Status/Message	No
Private/Enhanced Conversation (Decode only)	Yes
Radio Check	Future
Remote Monitor/Radio Trace	No
Reprogram Request	No
TRUNKING FEATURES	
Voice on Control	Future
SmartZone Automatic Site Registration	Yes
SmartZone RSSI Operation	Yes
SmartZone Preferred Site	Yes
SmartZone Forced Site Search	Yes
SmartZone Site Lock/Unlock	Yes
SmartZone Adjacent Control Channel OSW	Yes
Emergency Alarm Call Receive Indication	Yes

FCC Information

Band/Model	Power Output	Transmitter Type Acceptance	Emissions	Applicable Rules
VHF (138-174 MHz)	1 to 5 Watts	AZ489FT3807	11K0F3E, 11K0F2D, 11K0F1D, 15K0F1D, 15K0F2D, 16K0F3E, 20K0F1E, 20K0F1D, 8K10F1E, 8K10F1D	22, 74, 90
SUB-BAND PERFORMANCE				
VHF 138-174 MHz in all models				

[MT 1500 Catalog Sheet](#)

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

Models

Description	Nomenclature	APC	Price
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Options

Accessories

Antenna

Description	Nomenclature	APC	Price
ANTENNA, 136-174MHZ WIDEBAND DIPOLE	NAD6563	476	\$24.00
ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	NAD6566	476	\$16.50
ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	NAD6567	476	\$16.50
ANTENNA, 162-178MHZ WIDEBAND HELICAL	NAD6568	476	\$16.50

Battery

Description	Nomenclature	APC	Price
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	NNTN6263	453	\$137.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	NTN9857C	453	\$132.00
IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	NTN9858C	453	\$112.00

Belt Clip(s)

Description	Nomenclature	APC	Price
BELT CLIP 2 1/4"	HLN6853	271	\$11.50

Cable(s)

Description	Nomenclature	APC	Price
CABLE- PROGRAMMING USB DOES NOT require Smart Rib. This cable MUST be ordered or the RKN4106 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No RIB Box required.	RKN4105	261	\$237.00
CABLE- PROGRAMMING, RS232 This cable MUST be ordered or the RKN4105 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No RIB Box required.	RKN4106	261	\$251.00

Carrying Case(s)

Description	Nomenclature	APC	Price
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP Includes swivel belt loop and t-strap. 3.0" Snap NiCad or NiMH.	NNTN4115	271	\$60.00
LEATHER CASE W/HIGH ACTIVITY 2.5" SWIVEL BELT LOOP Includes swivel belt loop and t-strap. 2.5" Snap NiCad or NiMH.	NNTN4116	271	\$60.00
LEATHER CASE W/SNAP BELT LOOP & T-STRAP Includes snap belt loop and t-strap. For NiCad or NiMH.	NNTN4117	271	\$60.00
LEATHER T-STRAP, PLAIN ACTION SNAP	NTN8383	476	\$10.50
LEATHER T-STRAP, HARD ACTION SNAP WITH ADDITIONAL STRENGTH AT SNAP	NTN8384	476	\$10.50

Charger

Description	Nomenclature	APC	Price
WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER Wall Mount Bracket for IMPRES Multi-Unit Charger	NLN7967	476	\$21.00
CHARGER, 110 VOLT, US PLUG	NTN1667	476	\$100.00
CHARGER, IMPRES RAPID RATE, 110V US PLUG Rapid charger, NiCad, NiMH, & Lithium batteries are for ALL XTS, MTS, MT, JT, HT, and Saber batteries. (WPLN4114AR, & USA 3004209T03 Cord)	NTN1873	476	\$165.00
IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	WPLN4112BR	785	\$165.00

Earpieces

Description	Nomenclature	APC	Price
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE UL Approved	AARLN4885	742	\$25.00
EAR MICROPHONE FOR STANDARD NOISE LEVELS, BLACK Designed to pick up the voice through bone vibrations directly in the ear canal. Complete system consists of an Ear microphone and the corresponding Radio Interface Module (PTT or VOX). For noise levels up to 95 db. Requires Interface Module. *HT750, HT1250 & PR1500 - Intrinsically Safe (FM) Note: VOX is not recommended for trunking operation.	BDN6677	742	\$198.00
EARBUD, MINI MICROPHONE AND PTT *MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM).	BDN6780	742	\$67.00
EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE) *HT1000, XTS 3000, requires BDN6676 (3.5mm adapter jack) that attaches to the radio. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM) *XTS 5000 & XTS 2500 requires BDN6676. Intrinsically Safe (FM). Assembled (receive only) with volume control & standard urethane earloop. *PR1500 - requires BDN6676 - Intrinsically Safe (FM)	BDN6781	742	\$27.00
D-SHELL RX-ONLY EARPIECE(3.5MM)	PMLN4620A	742	\$19.00
BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	PMLN5464	742	\$395.00
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	RLN6230A	742	\$32.00
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	RLN6241A	742	\$20.00
QUICK DISCONNECT ACOUSTIC TUBE	RLN6242A	742	\$7.90
EAR RCVR W/COIL CBL&3.5MM PLUG	WADN4190B	742	\$43.00

Headsets

Description	Nomenclature	APC	Price
MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM) Medium Weight Headset, Over the Head, with In-Line PTT - Noise Reduction Rating = 24dB	NMN6258	742	\$389.00
MED DUTY HEADSET, BEHIND-THE-HEAD, W/IN-LINE PTT-NRR= 24DB-INTRIN (FM) Medium Weight Headset, Behind the Head, with In-Line PTT - Noise Reduction Rating = 24dB	NMN6259	742	\$425.00
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.	RMN4049	742	\$225.00
RUGGED TEMPLE TRANSDUCER HEADSET Features a noise cancelling boom microphone and In-Line PTT	RMN5049	742	\$340.00

Microphones

Description	Nomenclature	APC	Price
REMOTE SPEAKER MICROPHONE, IP57	PMMN4038A	372	\$88.50
RSM W/MAN DOWN BUTTON	RMN5038	372	\$120.00

Multi Unit Chargers

Description	Nomenclature	APC	Price
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	WPLN4108 R	785	\$788.00

Public Safety Microphone(s)

Description	Nomenclature	APC	Price
PSM STRAIGHT CABLE 30IN	RMN5072B	372	\$160.00
PSM STRAIGHT CABLE 24IN	RMN5073B	372	\$160.00
PSM STRAIGHT CABLE 18IN	RMN5074B	372	\$160.00

Service

Description	Nomenclature	APC	Price
HOUSING ELIMINATOR, XTS 2500, XTS 1500	8180384M37	261	\$500.00
BATTERY ELIMINATOR CABLE	AA0180305G54	261	\$127.00

Surveillance

Description	Nomenclature	APC	Price
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE) 1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6664	742	\$40.00
EARPIECE RECEIVE ONLY WITH EXTRA LOUD EARPHONE - BEIGE (SINGLE WIRE) 1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6665	742	\$42.00
EARPIECE RECEIVE ONLY WITH VOLUME CONTROL - BEIGE (SINGLE WIRE) 1-Wire Receive-Only Surveillance Kit with Volume Control and Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6666	742	\$53.00
EARPIECE WITH MICROPHONE & PTT COMBINED - BEIGE (2 WIRE) 2-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6667	742	\$114.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE) 3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6668	742	\$135.00
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE) 2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6669	742	\$118.00
EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BEIGE (3 WIRE) 3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved	BDN6670	742	\$150.00
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE) 1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6726	742	\$40.00

UNDEFINED

Description	Nomenclature	APC	Price
ABC LABEL REPLACEMENT KIT - GREEN	PMLN5159A	140	\$20.00
ABC LABEL REPLACEMENT KIT - BLUE	PMLN5160A	140	\$20.00
ABC LABEL REPLACEMENT KIT - YELLOW	PMLN5161A	140	\$20.00
ABC LABEL REPLACEMENT KIT -COOLGRAY	PMLN5162A	140	\$20.00
ABC LABEL REPLACEMENT KIT - RED	PMLN5163A	140	\$20.00

Manual(s)

Description	Nomenclature	APC	Price
XTS/MT1.5K,XTS2.5KM1,1.5,2,3CD UG B	PMLN4940B	205	\$21.00

Data Compiled 16-Feb-2015 using DUP and all prices in USD

**MT 1500 Portable Series 800.MHz Band
Wide Area SmartZone® "Handie-Talkie™" Radio
Trunked Radio Systems**

MT 1500 Last Order Entry Date : October 31, 2014

MT 1500 Last Scheduled Ship Date: November 30, 2014

MT 1500 Notification of Intent to Cancel Memo

**** Alternative product includes the APX Series **– APX1000 (Available - August 2014)**

[Ship Card](#)

Features

All MT 1500 packaged models include the following hardware features:

- 3 Programmable Side Buttons
- Orange Emergency Button
- 16 Position Mode Rotary Select Switch
- On/Off Volume
- Low Battery Alert Tone
- Antenna (Bandsplit and Type Dependent on Band Option)
- Noise Reduction Software
- 1 Top Mounted Programmable Three Position Concentric Switch
- Weather Sealed Universal Connector
- Bi-Color LED Indicator
- Nickel Metal Hydride Battery
- Detachable Belt Clip
- Audio Gain Control
- 1 Year Warranty

General Information

The MT 1500 Portable is offered in model I only:

Hardware Model	Modes	Alphanumeric Display Lines/Characters Per Line	Keypad	Navigation Pad
MT 1500 Model I	48	None	None	No

Operating Modes

MT 1500 Radio Model is capable of operation in two different voice communication modes:

- 3600 Analog Trunking • MDC 1200 Analog Conventional

The MT 1500 Portable is capable of 48 modes when the programmable Concentric Top Mounted Switch is used for Zone Operation. The mode of operation is programmed on a channel-by-channel basis.

There are no maximum frequency separation conditions that must be adhered to on the MT 1500 Portable Radio Series. Separation of frequencies can be as wide as the allowable sub-band per radio model with no degradation of any performance specifications. Mutual Aid channels 821-824 will be supported. If an incorrect antenna is used, degraded performance may be experienced.

RELATIVE RADIATED RECEIVE SENSITIVITY

The relative radiated receive sensitivity test (formerly referred to as self-quieters) measure the sensitivity from 764MHz to 870MHz in 12.5kHz steps. The radio is set to 25kHz channel mode. These measurements were taken in a shielded environment so that degraded sensitivity at discrete frequencies is known to be due to the radio's self-interference (as opposed to external interference.) The following list contains frequencies which were consistently found to have severely degraded performance on all measured radios: 856.3375, 857.7000, 860.7000, 862.2000, 863.7000, 867.3000, 864.0000.

FM INFORMATION

The XTS 2500 portable radio when properly equipped with options H223 and Q393 are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, II, III, Groups C, D, E, F, G, T3C without encryption modules.

The XTS 2500 portable radio when properly equipped with options H223 and Q393 are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, Class II, Class III, Groups D ,F, G, T3C with encryption modules.

Ordering Requirements

Ordering procedure is as follows:

Order the MT 1500 Portable Series as the main line item (H67UCC9PW5 N).

RADIO WIDE FEATURES	
Maximum Modes	
MT 1500 Model 1	48
Analog Operation	Yes
12.5/20/25 KHz Programmable Channels	Yes
Secure Capable	No
One Touch Operation	No
Real Time Clock	No
Surveillance Mode	No
Keypad Lock	No
Radio Lock	Yes
Smart Battery (NICAD Only)	Future
Radio Wide Transmit Inhibit	No
Time Out Timer	Yes
FLASHport®	No
ANALOG CONVENTIONAL FEATURES	
Conventional Features are additional radio wide features beyond those specified above.	
CSQ/PL/DPL	Yes
Dual Priority Channel Scan	No
Adaptive Power Control	Yes
Repeater/Talkaround Operation	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes
Smart PTT	Yes
Monitor	Yes
DTMF Tone Generation	N/A
MDC-1200 Emergency Call	Yes
MDC-1200 Silent Emergency Alarm	Yes
MDC-1200 PTT-ID Encode	Yes
MDC Repeater Access	Yes
MDC Request to Talk (RTT)	Yes
MDC Status, Status Request, Message	Yes
3600 Trunking Features	
Maximum Number of Trunked Systems - 48	Yes
Talkgroup Calls	Yes
PTT ID (Digital Only)	Model 1 - Encode Only Model 1.5 - Encode and Decode
Call Alert Decode Only	Yes
Dual Mode Scan	Yes
Failsft by Talkgroup	Yes
Telephone Interconnect Encode/Decode	No
System Wide Call (Receive Only)	Yes
Selective Radio Inhibit	Yes
Priority Scan	Yes
Dynamic Regrouping	Yes
Status/Message	No

Private/Enhanced Conversation (Decode only)	Yes
Radio Check	Future
Remote Monitor/Radio Trace	No
Reprogram Request	No
Trunking Features	
Voice on Control	Future
SmartZone® Automatic Site Registration	Yes
SmartZone® RSSI Operation	Yes
SmartZone® Preferred Site	Yes
SmartZone® Forced Site Search	Yes
SmartZone® Site Lock/Unlock	Yes
SmartZone® Adjacent Control Channel OSW	Yes
Emergency Alarm Call Receive Indication	Yes

FCC INFORMATION

Band/Model	Power Output	Transmitter Type Acceptance	Emissions	Applicable Rules
800 MHz (806-870)	1 to 3 Watts	AZ489FT5816	11K0F3E, 11K0F2D, 11K0F1D, 15K0F1D, 15K0F2D, 16K0F3E, 20K0F1E, 20K0F1D, 8K10F1E, 8K10F1D	22, 74, 90

SUB-BAND PERFORMANCE

800 MHz

806-870 MHz in all models

REBANDING Frequency Range for 700/800MHz in the CPS:

700 MHz:
 Rx/Tx: 764.006250 to 775.993750
 Tx Only: 794.006250 to 805.993750

800 MHz
 Tx Only: 806.000000 to 824.993750
 Rx/Tx: 851.000000 to 869.993750

[MT 1500 Catalog Sheet](#)

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

Models

Description	Nomenclature	APC	Price
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Options

Accessories

Battery

Description	Nomenclature	APC	Price
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	NNTN6263	453	\$137.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	NTN9857C	453	\$132.00
IMPRES NIMH, 2100 MAH, 7.5V BATTERY	NTN9858C	453	\$112.00

Carrying Case(s)

Description	Nomenclature	APC	Price
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP Includes swivel belt loop and t-strap. 3.0" Snap NiCad or NiMH.	NNTN4115	271	\$60.00
LEATHER CASE W/HIGH ACTIVITY 2.5" SWIVEL BELT LOOP Includes swivel belt loop and t-strap. 2.5" Snap NiCad or NiMH.	NNTN4116	271	\$60.00
LEATHER CASE W/SNAP BELT LOOP & T-STRAP Includes snap belt loop and t-strap. For NiCad or NiMH.	NNTN4117	271	\$60.00
LEATHER T-STRAP, PLAIN ACTION SNAP	NTN8383	476	\$10.50
LEATHER T-STRAP, HARD ACTION SNAP WITH ADDITIONAL STRENGTH AT SNAP	NTN8384	476	\$10.50

Charger

Description	Nomenclature	APC	Price
IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	WPLN4112BR	785	\$165.00

Earpieces

Description	Nomenclature	APC	Price
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE UL Approved	AARLN4885	742	\$25.00
D-SHELL RX-ONLY EARPIECE(3.5MM)	PMLN4620A	742	\$19.00

Data Compiled 16-Feb-2015 using DUP and all prices in USD



TRX's Indoor Location



Features

Motorola has partnered up with TRX Systems to provide an Indoor Location system compatible with the Motorola P25 APX Radios.

Real-time Location of Personnel

Easy to monitor interface showing real-time 2D and 3D location of all personnel

Precise Detail on Personnel Movement and Activity

Clear views of personnel activity (walking, crawling) and status (moving, motionless, high impact)

Effective After-Action Review

Location & status logging for all personnel supporting training and after action reviews

Portable and Rapidly Deployed

Rapid on-scene configuration includes easy building rendering and optional anchor deployment

The TRX NEON Indoor Location System locates and tracks personnel operating indoors where GPS is unavailable and in urban areas where GPS is unreliable. Wearing NEON Tracking Units, personnel can be located and tracked real time in both 2D and 3D.

NEON fuses gyroscope, accelerometer, pressure, compass, Wi-Fi, and ranging sensor information along with inferred map and building data to deliver reliable GPS-denied location. Rapidly deployable Multi-Sensor Anchor Nodes and floor plan information may be used in fixed site applications to enhance precision. Anchor Nodes do not require networking and they can be added during operations.

The NEON Navigation Engine is available as part of the NEON Indoor Location System and may be licensed for integration with third party sensor platforms.

Enhanced Tracking Performance

NEON sensor fusion and mapping algorithms deliver accurate location within buildings even where ranging, inertial, magnetic and pressure sensors can provide erroneous measurements due to interference from building infrastructure or from sensor drift. TRX's algorithms are unique in that they maintain 'visual accuracy' (or path shape). Path shape is important for generating routing maps and for conveying information for retrieval of distressed personnel using their path. Operating without GPS coverage, NEON provides differential location (position relative to a starting point) in real time. Starting point initialization can be obtained via GPS, NEON Multi-Sensor Anchors, manually entered position, waypoint selection, and Near-Field Communication Check-Ins. Overall location accuracy is affected by accuracy of the start location, sensor integrity, map information, and number of personnel tracked. For fixed sites, location integrity can be enhanced with entry of floor plan features and use of portable Multi-Sensor Anchor Nodes.

NEON Use Cases

- Tactical Training: police, military, fire
- VIP Security
- Hazardous Material (CBRN) Responders
- Crime Scene Forensics
- Search & Rescue
- Underground tracking

Product Information

NEON uses unique APX Bluetooth pairing as well as APX data capabilities to transmit location information back to command center, and stores personnel location data to support after action review for training applications.

- Encouraging use for training purposes only at this time
- Simplex Conventional digital only
- Requires a dedicated data channel on digital/conventional mode (TRX data transfer to APX)
- Simultaneous tracking for up to 4-6 users

System Components

Motorola APX Portable – Conventional mode, supporting Bluetooth MPP pairing, integrated voice and data options.

- TRX Tracking Unit (4.7”L, 2.7”H, 1.1”D). Waist worn, battery life >8 hours
- Multi-sensor Anchor: (4.7”L, 2.7”H, 1.1”D), battery life >8 hours
- Recommend minimum four (4) anchors per deployment for initialization (includes 1 at command station).
- Thereafter, up to one (1) anchor approximately every 400 Sq. meters preferably at choke points (doorways, stairwells, elevators).
- Command Station - Lap top with NEON software; Intel i7 Processor, 8GB RAM, SSD, NVIDIA Graphics, Windows 7 (requires Internet connection)
- Mobile Charging Case: space for 12 Tracking Units / Anchor Nodes, unit charging components, space for lap top and accessories

Note: 1 APX Portable required per NEON Tracking Unit and 1 APX Portable or Mobile required per Command Station including programming (USB /GCAI) cable

Accuracy

Real-time:	< 7 meter
Real-time:	< 1 meter

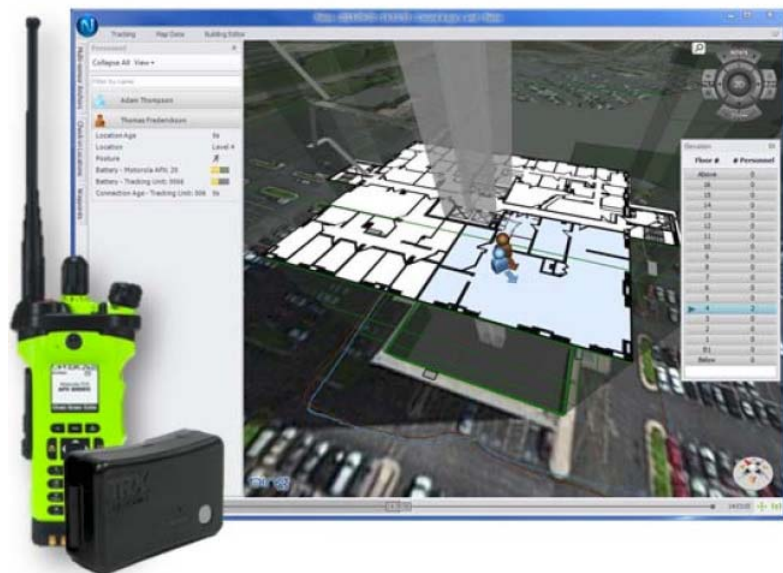
Latency (Data Only)

One User:	< 4 seconds
Three Users:	< 14 seconds
Five Users:	< 22 seconds

Scalability

5 per Command Station
 Up to two hours (typical)
 Impacted by voice communications,
 number of users

Neon Screenshot



Deployment and Charging Case



Tracking Unit with Belt



SYSTEM SET UP

Both the APX radio and TRX tracking unit are equipped with Bluetooth HW and Motorola Mission Critical Wireless Technology for secure pairing.

System Set up:

- Laptop loaded with TRX Neon software (Command Station)
- Command Station Tracking unit - Base Reference Tracking unit connected to Command Station Laptop via USB
- APX Gateway Radio - APX Radio connected to Command Station Laptop via USB/GCAI Cable
- Anchor Nodes - 1 recommended every 400 sq meters
- APX radio Bluetooth paired with body worn Tracking Unit

Computer Requirements: Lap Top required, minimum specs include: Intel i5 Processor, 8GB RAM, 7200 RPM HDD, NVIDIA Graphics, Windows 7

Note: 1 APX Portable required per NEON Tracking Unit and 1 APX Portable or Mobile required per Command Station including programming (USB /GCAI) cable

ADDITIONAL LITERATURE & VIDEOS

Literature:

[TRX Data Sheet](#)

[TRX Brochure](#)

Videos:

[Motorola APX Indoor Location for Law Enforcement](#)

[Motorola APX Indoor Location for Firefighters](#)

BUNDLE

Description	Nomenclature	APC	Price
TRX STARTER SYSTEM BUNDLE • Bundle Includes: NEON Software 4 trackers 8 Anchor nodes Deployment and re-charge case 1 year maintenance 1 day installation/support/training NEON Multi-Sensor Anchor Nodes	DDN2025	571	\$42,900.0

HARDWARE

Description	Nomenclature	APC	Price
NEON Waist-Mounted Tracking Unit Waist worn Tracking units. Equipped with Gyroscope, Accelerometer, Altimete, Compass, Light Sensor, Time of Flight (TOF) RF Ranging	DDN2027	571	\$2,000.0
NEON Multi-Sensor Anchor Nodes Anchor Nodes enable delivery of higher reliability and precision tracking where it is possible to pre-install limited infrastructure in high priority and critical buildings.	DDN2028	571	\$2,000.0

SOFTWARE

Description	Nomenclature	APC	Price
NEON Command Station, Required Per Tracking Unit Subscriber	DDN2026	571	\$1,000.0
NEON Android-based Smartphone / Tablet Software for Location	DDN2029	571	\$299.0

ACCESSORIES

Description	Nomenclature	APC	Price
Mobile Command Station Deployment & Recharge Case Case for Tracking Units / Anchor Nodes / Lap Top / Unit Charging components	DDN2030	571	\$6,500.0

SERVICE AND SUPPORT

System and Software Maintenance: 20% system cost per year
 Includes: latest software upgrades ; trouble shooting (email) 9:00 am to 5:00 pm EST for TRX specific issues

Installation / Support / Training: \$ 1,500.00 per day
 (Travel additional)

NOTES

- (1) TRX Hardware/Software License & Limitation of Liability, Standard Terms Apply
 (2) Command Software must include a minimum of 2 Tracking Unit Licenses/Computer.
 (3) Each Tracking Unit must have a corresponding Command Station Tracking License.
 (4) Minimum 1 day Installation/Support/Training required per new system
 (5) Lap Top required, minimum specs include: Intel i5 Processor, 8GB RAM, 7200 RPM HDD, NVIDIA Graphics, Windows 7
 (6) System requires customer provided communications. Motorola APX radios (supporting MPP pairing, Bluetooth and data) have been fully tested by TRX.
-

ALL ITEMS ARE CERTIFIED FOR UNITED STATES USE ONLY

Models

Description	Nomenclature	APC	Price
LOCATION SYSTEM,TRX NEON STARTER SY	DDN2025	571	\$42,900.00
SOFTWARE,TRX NEON COMMAND STATION S	DDN2026	571	\$1,000.00
LOCATION SYSTEM,TRX NEON TRACKING U	DDN2027	571	\$2,000.00
LOCATION SYSTEM,TRX NEON MULTI-SENS	DDN2028	571	\$2,000.00
SOFTWARE,TRX NEON TRACKER MOBILE VI	DDN2029	571	\$299.00
LOCATION SYSTEM,TRX PORTABLE DEPLOY	DDN2030	571	\$6,500.00

Options

Accessories

Data Compiled 16-Feb-2015 using DUP and all prices in USD

**ASTRO® Digital XTS 1500 Portable Series
UHF Range 1 and UHF Range 2
Wide Area SmartZone® "Handie-Talkie™" Radio
Trunked Radio Systems**



XTS 1500 Last Order Entry Date : October 31, 2014

XTS 1500 Last Scheduled Ship Date: November 30, 2014

[XTS 1500 Notification of Intent to Cancel Memo](#)

**** Alternative product includes the APX Series ** – [APX1000 \(Available - December 2014\)](#)**

Special Note for United States - State & Local Markets only:

In accordance with FCC mandate, the XTS 1500 UHF R1 & UHF R2 products operating on Part 90 frequencies will be restricted to 12.5kHz or narrower operations on Jan. 1, 2013

******Please note that NEW version of Customer Programming Software (CPS) (Part # RVN4181/ RVN4186) is required for initial customer orders for XTS radios. ******

[Ship Card](#)

Features

All ASTRO Digital XTS 1500 packaged models include the following hardware features:

- 3 Programmable Side Buttons
- Orange Emergency Button
- 16 Position Mode Rotary Select Switch
- On/Off Volume
- Low Battery Alert Tone
- Antenna (Bandsplit and Type Dependent on Band Option)
- Noise Reduction Software
- 1 Top Mounted Programmable Three Position Concentric Switch
- Weather Sealed Universal Connector
- Bi-Color LED Indicator
- IMPRES Nickel Metal Hydride Battery (NTN9858)
- Detachable Belt Clip
- ASTRO 25
- Audio Gain Control

All ASTRO Digital XTS 1500 Portables are part of the FLASHport program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent upon remaining within the same RF deck.)

General Information

The ASTRO Digital XTS 1500 Portable Line offers a Model I radio:

Hardware Model	Modes	Alphanumeric Display Lines/Characters Per Line	Keypad	Navigation Pad
ASTRO XTS 1500 Model I	48	None	None	No
ASTRO XTS 1500 Model 1.5	256	4 lines/12 characters	None	No

Operating Modes

ASTRO Digital XTS 1500 Radio Model is capable of operating in three software packages listed below:

- 3.6KB ASTRO Digital/Analog Trunking
- 9.6KB ASTRO 25 Digital Trunking
- 9.6KB APCO P25 Digital Conventional

The ASTRO Digital XTS 1500 Portables are capable of 16 modes when the programmable Concentric Top Mounted Switch is used for Zone Operation. The mode of operation is programmed on a channel-by-channel basis.

Please note that the XTS 1500 does NOT support FRED.

CHANNEL SPACING

There are no maximum frequency separation conditions that must be adhered to on the ASTRO Digital XTS 1500 Portable Radio Series. Separation of frequencies can be as wide as the allowable sub-band per radio model with no degradation of any performance specifications.

The ASTRO Digital XTS 1500 portable can be upgraded electronically (via RS232 cable or USB cable are required for all software upgrades) in the field with new systems operation (contingent upon remaining within the same RF sub-band) by ordering upgrade kits.

RELATIVE RADIATED RECEIVE SENSITIVITY

The relative radiated receive sensitivity test (formerly referred to as self-quieters) measures the sensitivity from 380-520 MHz in 12.5kHz steps. The radio is set to 25kHz channel mode. These measurements were taken in a shielded environment so that degraded sensitivity at discrete frequencies is known to be due to the radio's self-interference (as opposed to external interference). The following list contains frequencies which were consistently found to have severely degraded performance on all measured radios (secure and non-secure): 381.535 (secure), 386.400, 389.490 (secure), 393.195, 396.000, 396.300, 405.380 (secure), 413.330 (secure), 414.000, 415.500, 417.770, 420.000, 421.280 (secure), 426.600, 429.230 (secure), 432.000, 432.6125, 434.700, 436.800, 442.3438, 450.000, 453.600, 456.000, 460.800, 462.000, 466.920, 468.000, 470.400, 474.000, 480.000, 486.000, 487.200, 491.490, 492.000 (secure), 497.6950 (secure), 498.000, 502.200 (secure), 504.000, 512.400, 516.000, 516.070, 517.440, 519.120

FM INFORMATION

The XTS 1500 portable radio when properly equipped with options H223 and Q393 are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, II, III, Groups C, D, E, F, G, T3C without encryption modules.

The XTS 1500 portable radio when properly equipped with options H223 and Q393 are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, Class II, Class III, Groups D ,F, G, T3C with encryption modules.

Ordering Requirements

Ordering procedure is as follows:

1	H66QD_9PW5_N	ASTRO XTS 1500 Portable UHF R1
1	H66SD_9PW5_N	ASTRO XTS 1500 Portable UHF R2
1A	Qxxx	System Software
1B	etc	Other options

1. Order the ASTRO Digital XTS 1500 Portable Series as the main line item (H66QDC9PW5 N or H66SDC9PW5 N).
2. Each hardware model MUST be ordered with one Operating Mode. One Operating Mode Package MUST be ordered for each radio unit ordered.

Choose between 9600 Trunking, 3600 Analog/ Digital Trunking, 3600 Analog only and P25 Conventional Operation.

SOFTWARE FEATURES SUPPORTED BY			
Q574 Wide Area SmartZone / Q575 Wide Area SmartZone / Q443 Wide Area Analog SmartZone/ Q811 P25 Digital Conventional			
	"ASTRO Digital"(Q575)	"ASTRO Digital"(Q574)	P25 Conventional (Q811)
	Non-Project 25	Project 25	Project 25
	(3600 Baud)	(9600 Baud)	Conventional
RADIO WIDE FEATURES			
Maximum Modes			
ASTRO Digital XTS 1500 Model 1/1.5	48/256	48/256	48/256
Analog and Digital Operation	Yes	Yes	Yes
12.5/20/25 KHz Programmable Channels	Yes	Yes	Yes
Secure Capable	No	No	No
One Touch Operation	No	No	No
Real Time Clock	No	No	No
Surveillance Mode	No	No	No
Keypad Lock	No	No	No
Radio Lock	Yes	Yes	Yes
Smart Battery	Yes	Yes	Yes
Radio Wide Transmit Inhibit	No	No	No
Time Out Timer	Yes	Yes	Yes
FLASHport	Yes	Yes	Yes
ANALOG CONVENTIONAL FEATURES			
Conventional Features are additional radio wide features beyond those specified above.			
CSQ/PL/DPL	Yes	Yes	Yes
Adaptive Power Control	Yes	Yes	Yes
Dual Priority Channel Scan	No	No	Yes
Repeater/Talkaround Operation	Yes	Yes	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes	Yes	Yes
Smart PTT	Yes	Yes	Yes
Monitor	Yes	Yes	Yes
DTMF Tone Generation	-	-	-
Adaptive Power Control	Yes	Yes	Yes
MDC-1200 Emergency Call	Yes	Yes	Yes
MDC-1200 Silent Emergency Alarm	No	No	No
MDC-1200 PTT-ID Encode	Yes	Yes	Yes
MDC Repeater Access	Yes	Yes	Yes
MDC Request to Talk (RTT)	Yes	Yes	Yes
MDC Status, Status Request, Message	Yes	Yes	Yes
DIGITAL CONVENTIONAL SIGNALING FEATURES			
These features are APCO Project 25 Conventional Interoperable Features when used in the ASTRO Digital CAI Mode (Q806).			
Unaddressed Voice Call	Yes	Yes	Yes
Talk Group Call	Yes	Yes	Yes
Group Call Alert™	Yes	Yes	Yes
Talk Group Identification (TGID)	Yes	Yes	Yes
Selective Call (Individual Voice Call)	Yes	Yes	Yes
PTT ID (Individual Identification)	Yes	Yes	Yes
Call Alert Decode	Yes	Yes	Yes
Emergency Alarm w/Channel Revert & Ack.	Yes	Yes	Yes
Telephone Interconnect Decode	Yes	Yes	Yes
Selective Radio Inhibit	Yes	Yes	Yes
Radio Check	-	-	-
Status/Message	No	No	No

Trunking Type II Only Features			
Maximum Number of Trunked Systems-16	Yes	Yes	No
Talkgroup Calls	Yes	Yes	No
PTT ID (Digital Only)	Model I - Encode only Model 1.5 - Encode and Decode	Model I - Encode only Model 1.5 - Encode and Decode	Model I - Encode only Model 1.5 - Encode and Decode
Call Alert Decode	Yes	Yes	No
Dual Mode Scan	Yes	No	No
Failsoft by Talkgroup	Yes	Yes	No
Telephone Interconnect Decode	Yes	Yes	No
System Wide Call (Receive Only)	Yes	No	No
Selective Radio Inhibit	Yes	Yes	No
Priority Monitor Scan	Yes	Yes	No
Dynamic Regrouping	Yes	Yes	No
Status/Message	No	No	No
Private/Enhanced Conversation Decode	Yes	Yes	No
Radio Check	No	No	No
Remote Monitor/Radio Trace	No	No	No
Reprogram Request	No	Yes	No
SmartZone® Trunking Type II Only Features			
Voice on Control	Future	Future	No
SmartZone Automatic Site Registration	Yes	Yes	No
SmartZone RSSI Operation	Yes	Yes	No
SmartZone Preferred Site	Yes	Yes	No
SmartZone Forced Site Search	Yes	Yes	No
SmartZone Site Lock/Unlock	Yes	Yes	No
SmartZone Adjacent Control Channel OSW	Yes	Yes	No
Emergency Alarm Call Receive Indication	Yes	Yes	No

Legend:

Blue=Feature to be added in a Future Release

Green=New XTS 1500 Features

FCC Information

FCC IDENTIFIER: AZ489FT4865

Name of Grantee: Motorola Solutions, Inc.

Equipment Class: Licensed Non-Broadcast Transmitter Held to Face

Notes: HAND HELD PORTABLE 2-WAY RADIO

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
BE	90	380.0 - 470.0	5.9	2.0 PM	16K0F3E
BE	90	380.0 - 470.0	5.9	2.0 PM	11K0F3E
BE	90	380.0 - 470.0	5.9	2.0 PM	8K10F1E
BE	90	380.0 - 470.0	5.9	2.0 PM	8K10F1D
BE	90	380.0 - 470.0	5.9	2.0 PM	20K0F1E

FCC IDENTIFIER: AZ489FT4866

Name of Grantee: Motorola Solutions, Inc.

Equipment Class: Licensed Non-Broadcast Transmitter Held to Face

Notes: HAND HELD PORTABLE 2-WAY R4ADIO

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
BE	80, 90, 90.210	450.0 - 520.0	6.0	2.0 PM	16K0F3E
BE	80, 90, 90.210	450.0 - 450.0	6.0	2.0 PM	11K0F3E
BE	80, 90, 90.210	450.0 - 520.0	6.0	2.0 PM	8K10F1E
BE	80, 90, 90.210	450.0 - 520.0	6.0	2.0 PM	8K10F1D
BE	80, 90, 90.210	450.0 - 520.0	6.0	2.0 PM	20K0F1E

SUB-BAND PERFORMANCE	
UHF R1	380-470 MHz
UHF R2	450-520 MHz

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

[ASTRO Digital XTS 1500 Catalog Sheet](#)

ASTRO Advanced Messaging Solution (AMS)

The ASTRO 25 Advanced Messaging Solutions is the latest messaging platform from Motorola Solutions and will replace ASTRO Text Messaging Service (TMS). As a complete end-to-end solution it leverages the core assets of ASTRO 25 IV&D/CID networks, ASTRO 25 radios, Integrated Command Center applications and Unified Network Services. The application allows responders to send/receive messages and run database queries from ASTRO 25 data enabled portable radios, extending real time information access to the field so dispatchers and first responders can be more efficient and achieve safer outcomes.

Provides functional parity with TMS and leverages the PremierOne messaging services platform, offering multiple configurations to enhance and extend core messaging functionality that can include queries and dispatch notifications. Based upon the configuration chosen, ASTRO 25 Advanced Messaging Solution extends Computer Aided Dispatch (CAD) information beyond the vehicle to select ASTRO 25 Portable radios.

Many Public Safety agencies have experienced the benefits of messaging and sharing important information to/from the communication center (dispatch) and vehicles equipped with MDT's. With ASTRO 25 Advanced Messaging Solution we are extending that capability to responders when Outside the Vehicle.

ASTRO Advanced Messaging Solution will be available on XTS 1500 Front Display Portable radios.

Ordering ASTRO Advanced Messaging Solution for XTS 1500 Portable Requires:

- XTS 1500 Front Display
 - ASTRO Digital CAI Operation (Q806)
 - P25 Conventional (Q811)
 - Packet Data Interface (Q947)
- OR
- XTS 1500 Front Display
 - ASTRO Digital CAI Operation (Q806)
 - ASTRO Project 25 Trunking Software (Q574)
 - Packet Data Interface (Q947)

NOTE: There is no specific option to order for the Advanced Messaging Solution on the subscribers as the functionality is included in the Packet Data option. Also, the text messaging functionality carries a per-radio charge on the server side of \$50 (one time license fee to access messaging services) per radio. When adding query the fee is \$125 per radio. For additional ordering guidelines of the AMS feature which includes the server and radio license fees, please visit -

<http://ecat.comm.mot.com/ecat/pricebooks/dup/MCCP.htm>

Models

Description	Nomenclature	APC	Price
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Options

Accessories

Adapter

Description	Nomenclature	APC	Price
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$52.50

PSM RF ADPT RLN5918 372 \$36.00

Antenna

Description	Nomenclature	APC	Price
UHF HELICAL ANTENNA, 403-435 MHZ	NAE6546 R	796	\$16.00
ANTENNA, 470-520MHZ UHF HELICAL	NAE6548	402	\$16.50

Battery

Description	Nomenclature	APC	Price
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	NNTN6263	453	\$137.00
PREM BATT NICD 1525 MAH	NTN9815B	453	\$100.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	NTN9857C	453	\$132.00
IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	NTN9858C	453	\$112.00

Battery Maintenance Systems

Description	Nomenclature	APC	Price
NA FLEET MANAGEMENT LICENSE KEY	HKVN4036A	785	\$489.00
FLEET MANAGEMENT CHRGR INTERFACE UNIT	NNTN7677A	291	\$80.00

Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.

Belt Clip(s)

Description	Nomenclature	APC	Price
BELT CLIP 2 1/4"	HLN6853	271	\$11.50

Bluetooth, Mission Critical Wireless

Description	Nomenclature	APC	Price
XTS BLUETOOTH ADAPTER	RMN5104A	742	\$179.00

Carrying Case(s)

Description	Nomenclature	APC	Price
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP Includes swivel belt loop and t-strap. 3.0" Snap NiCad or NIMH.	NNTN4115	271	\$60.00
LEATHER CASE W/HIGH ACTIVITY 2.5" SWIVEL BELT LOOP Includes swivel belt loop and t-strap. 2.5" Snap NiCad or NIMH.	NNTN4116	271	\$60.00
LEATHER CASE W/SNAP BELT LOOP & T-STRAP Includes snap belt loop and t-strap. For NiCad or NIMH.	NNTN4117	271	\$60.00
LEATHER T-STRAP, PLAIN ACTION SNAP	NTN8383	476	\$10.50
LEATHER T-STRAP, HARD ACTION SNAP WITH ADDITIONAL STRENGTH AT SNAP	NTN8384	476	\$10.50

Charger

Description	Nomenclature	APC	Price
WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER Wall Mount Bracket for IMPRES Multi-Unit Charger	NLN7967	476	\$21.00
CHARGER, 110 VOLT, US PLUG	NTN1667	476	\$100.00
VEHICULAR TRAVEL CHARGER Utilizes the cigarette lighter adapter. INCLUDES: mounting bracket, custom coil cord, and charger. Travel charger is best used and compatible with 2" belt clip.	RLN4884	785	\$95.00
IMPRES CHARGER	WPLN4111AR	785	\$165.00
IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	WPLN4112BR	785	\$165.00

Commport Integrated Microphone/Receiver

Description	Nomenclature	APC	Price
COMMPORT WITH PALM PTT CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$419.00
COMMPORT WITH PTT ON RADIO ADAPTER CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00
COMMPORT WITH SNAP-ON SIDE PTT CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00

Earpieces

Description	Nomenclature	APC	Price
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE UL Approved	AARLN4885	742	\$25.00
EAR MICROPHONE FOR STANDARD NOISE LEVELS, BLACK Designed to pick up the voice through bone vibrations directly in the ear canal. Complete system consists of an Ear microphone and the corresponding Radio Interface Module (PTT or VOX). For noise levels up to 95 db. Requires Interface Module. *HT750, HT1250 & PR1500 - Intrinsicly Safe (FM) Note: VOX is not recommended for trunking operation.	BDN6677	742	\$198.00
EARBUD, MINI MICROPHONE AND PTT *MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsicly Safe (FM).	BDN6780	742	\$67.00
EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE) *HT1000, XTS 3000, requires BDN6676 (3.5mm adapter jack) that attaches to the radio. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsicly Safe (FM) *XTS 5000 & XTS 2500 requires BDN6676. Intrinsicly Safe (FM). Assembled (receive only) with volume control & standard urethane earloop. *PR1500 - requires BDN6676 - Intrinsicly Safe (FM)	BDN6781	742	\$27.00
D-SHELL RX-ONLY EARPIECE(3.5MM)	PMLN4620A	742	\$19.00

EARPLUGS FOAM/ACOUSTIC TUBE BLACK
 RUBBER EARTIP/ACOUSTIC TUBE BEIGE
 QUICK DISCONNECT ACOUSTIC TUBE
 EAR RCVR W/COIL CBL&3.5MM PLUG

PMLN5464	742	\$395.00
RLN6230A	742	\$32.00
RLN6241A	742	\$20.00
RLN6242A	742	\$7.90
WADN4190B	742	\$43.00

Headsets

Description

HEADSET LIGHTWEIGHT
 Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM)
 EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)
 MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)
 Medium Weight Headset, Over the Head, with In-Line PTT - Noise Reduction Rating = 24dB
 MED DUTY HEADSET, BEHIND-THE-HEAD, W/IN-LINE PTT-NRR= 24DB-INTRIN (FM)
 Medium Weight Headset, Behind the Head, with In-Line PTT - Noise Reduction Rating = 24dB
 HEAVY DUTY HEADSET PMLN5278B

Nomenclature	APC	Price
NMN6245	785	\$149.00
NMN6258	742	\$389.00
NMN6259	742	\$425.00
PMLN5278B	742	\$439.00

Multi Unit Chargers

Description

IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY

Nomenclature	APC	Price
WPLN4108 R	785	\$788.00

Data Compiled 16-Feb-2015 using DUP and all prices in USD

**ASTRO® Digital XTS 1500 Portable Series
VHF
Wide Area SmartZone® "Handie-Talkie™" Radio
Trunked Radio Systems**



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[Ship Card](#)

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- Low Battery Alert Tone
- 1 Top Mounted Programmable Three Position Concentric Switch
- Weather Sealed Universal Connector
- Bi-Color LED Indicator
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- Detachable Belt Clip

- Antenna (Bandsplit and Type Dependent on Band Option) • ASTRO 25
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Please note that the XTS 1500 does NOT support FRED.

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The XTS 1500 portable radio when properly equipped with options H223 and Q393 are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, II, III, Groups C, D, E, F, G, T3C without encryption modules.

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Ordering Requirements

Ordering procedure is as follows:

1	H66KD_9PW5_N	ASTRO XTS 1500 Portable
1A	Qxxx	System Software
1B	etc	Other options

1. Order the ASTRO Digital XTS 1500 Portable Series as the main line item (H66KDC9PW5 N).
2. Each hardware model MUST be ordered with one Operating Mode. One Operating Mode Package MUST be ordered for each radio unit ordered. Choose between 9600 Trunking, 3600 Analog/ Digital Trunking, 3600 Analog only and P25 Conventional Operation.

SOFTWARE FEATURES SUPPORTED BY	
Q574 Wide Area SmartZone / Q575 Wide Area SmartZone / Q443 Wide Area Analog SmartZone/ Q811 P25 Digital Conventional	
	P25 Conventional

	"ASTRO Digital"(Q575)	"ASTRO Digital"(Q574)	(Q811)
	Non-Project 25	Project 25	Project 25
	(3600 Baud)	(9600 Baud)	Conventional
RADIO WIDE FEATURES			
Maximum Modes			
ASTRO Digital XTS 1500 Model 1/1.5	48/256	48/256	48/256
Analog and Digital Operation	Yes	Yes	Yes
12.5/20/25 KHz Programmable Channels	Yes	Yes	Yes
Secure Capable	No	No	No
One Touch Operation	No	No	No
Real Time Clock	No	No	No
Surveillance Mode	No	No	No
Keypad Lock	No	No	No
Radio Lock	Yes	Yes	Yes
Smart Battery	Yes	Yes	Yes
Radio Wide Transmit Inhibit	No	No	No
Time Out Timer	Yes	Yes	Yes
FLASHport	Yes	Yes	Yes
ANALOG CONVENTIONAL FEATURES			
Conventional Features are additional radio wide features beyond those specified above.			
CSQ/PL/DPL	Yes	Yes	Yes
Adaptive Power Control	Yes	Yes	Yes
Dual Priority Channel Scan	No	No	Yes
Repeater/Talkaround Operation	Yes	Yes	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes	Yes	Yes
Smart PTT	Yes	Yes	Yes
Monitor	Yes	Yes	Yes
DTMF Tone Generation	-	-	-
Adaptive Power Control	Yes	Yes	Yes
MDC-1200 Emergency Call	Yes	Yes	Yes
MDC-1200 Silent Emergency Alarm	No	No	No
MDC-1200 PTT-ID Encode	Yes	Yes	Yes
MDC Repeater Access	Yes	Yes	Yes
MDC Request to Talk (RTT)	Yes	Yes	Yes
MDC Status, Status Request. Message	Yes	Yes	Yes
DIGITAL CONVENTIONAL SIGNALING FEATURES			
These features are APCO Project 25 Conventional Interoperable Features when used in the ASTRO Digital CAI Mode (Q806).			
Unaddressed Voice Call	Yes	Yes	Yes
Talk Group Call	Yes	Yes	Yes
Group Call Alert™	Yes	Yes	Yes
Talk Group Identification (TGID)	Yes	Yes	Yes
Selective Call (Individual Voice Call)	Yes	Yes	Yes
PTT ID (Individual Identification)	Yes	Yes	Yes
Call Alert Encode/Decode	Yes	Yes	Yes
Emergency Alarm w/Channel Revert & Ack.	Yes	Yes	Yes
Telephone Interconnect Decode	Yes	Yes	Yes
Selective Radio Inhibit	Yes	Yes	Yes
Radio Check	-	-	-
Status/Message	No	No	No
Trunking Type II Only Features			
Maximum Number of Trunked Systems-16	Yes	Yes	No
Talkgroup Calls	Yes	Yes	No
	Model I - Encode only	Model I - Encode only	Model I - Encode only

PTT ID (Digital Only)	Model 1.5 - Encode and Decode	Model 1.5 - Encode and Decode	Model 1.5 - Encode and Decode
Call Alert Decode	Yes	Yes	No
Dual Mode Scan	Yes	No	No
Failsoft by Talkgroup	Yes	Yes	No
Telephone Interconnect Decode	Yes	Yes	No
System Wide Call (Receive Only)	Yes	No	No
Selective Radio Inhibit	Yes	Yes	No
Priority Monitor Scan	Yes	Yes	No
Dynamic Regrouping	Yes	Yes	No
Status/Message	No	No	No
Private/Enhanced Conversation Decode	Yes	Yes	No
Radio Check	No	No	No
Remote Monitor/Radio Trace	No	No	No
Reprogram Request	No	Yes	No
SmartZone® Trunking Type II Only Features			
Voice on Control	Future	Future	No
SmartZone Automatic Site Registration	Yes	Yes	No
SmartZone RSSI Operation	Yes	Yes	No
SmartZone Preferred Site	Yes	Yes	No
SmartZone Forced Site Search	Yes	Yes	No
SmartZone Site Lock/Unlock	Yes	Yes	No
SmartZone Adjacent Control Channel OSW	Yes	Yes	No
Emergency Alarm Call Receive Indication	Yes	Yes	No

Legend:
 Blue=Feature to be added in a Future Release
 Green=New XTS 1500 Features

FCC Information

FCC IDENTIFIER: AZ489FT3807

Name of Grantee: Motorola Solutions, Inc.

Equipment Class: Licensed Non-Broadcast Transmitter Held to Face

Notes: Astro XTS2500 Digital Portable Radio

Modular Type: Does not apply

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
BC	90.210	136.0 - 174.0	5.7	2.5 PM	11K0F3E
BC	90	136.0 - 174.0	5.7	2.5 PM	16K0F3E
BC	90.210	136.0 - 174.0	5.7	2.5 PM	8K10F1D
BC	90.210	136.0 - 174.0	5.7	2.5 PM	8K10F1E
BC	80	136.0 - 174.0	5.7	2.5 PM	11K063E
BC	80	136.0 - 174.0	5.7	2.5 PM	16K0F3E
BC	80	136.0 - 174.0	5.7	2.5 PM	8K10F1D
BC	80	136.0 - 174.0	5.7	2.5 PM	8K10F1E

SUB-BAND PERFORMANCE
VHF 136-174 MHz in all models

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

[ASTRO Digital XTS 1500 Catalog Sheet](#)

ASTRO Advanced Messaging Solution (AMS)

The ASTRO 25 Advanced Messaging Solutions is the latest messaging platform from Motorola Solutions and will replace ASTRO Text Messaging Service (TMS). As a complete end-to-end solution it leverages the core assets of ASTRO 25 IV&D/CID networks, ASTRO 25 radios, Integrated Command Center applications and Unified Network Services. The application allows responders to send/receive messages and run database queries from ASTRO 25 data enabled portable radios, extending real time information access to the field so dispatchers and first responders can be more efficient and achieve safer outcomes.

Provides functional parity with TMS and leverages the PremierOne messaging services platform, offering multiple configurations to enhance and extend core messaging functionality that can include queries and dispatch notifications. Based upon the configuration chosen, ASTRO 25 Advanced Messaging Solution extends Computer Aided Dispatch (CAD) information beyond the vehicle to select ASTRO 25 Portable radios.

Many Public Safety agencies have experienced the benefits of messaging and sharing important information to/from the communication center (dispatch) and vehicles equipped with MDT's. With ASTRO 25 Advanced Messaging Solution we are extending that capability to responders when Outside the Vehicle.

ASTRO Advanced Messaging Solution will be available on XTS 1500 Front Display Portable radios.

Ordering ASTRO Advanced Messaging Solution for XTS 1500 Portable Requires:

- XTS 1500 Front Display
 - ASTRO Digital CAI Operation (Q806)
 - P25 Conventional (Q811)
 - Packet Data Interface (Q947)
- OR
- XTS 1500 Front Display
 - ASTRO Digital CAI Operation (Q806)
 - ASTRO Project 25 Trunking Software (Q574)
 - Packet Data Interface (Q947)

NOTE: There is no specific option to order for the Advanced Messaging Solution on the subscribers as the functionality is included in the Packet Data option. Also, the text messaging functionality carries a per-radio charge on the server side of \$50 (one time license fee to access messaging services) per radio. When adding query the fee is \$125 per radio. For additional ordering guidelines of the AMS feature which includes the server and radio license fees, please visit -

<http://ecat.comm.mot.com/ecat/pricebooks/dup/MCCP.htm>

Models				
Description	Nomenclature	APC	Price	
Options				
Accessories				
Adapter				
Description	Nomenclature	APC	Price	
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH <small>For use with 1, 2 & 3 wire earpiece.</small>	BDN6676	742	\$52.50	
Antenna				
Description	Nomenclature	APC	Price	
ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	NAD6566	476	\$16.50	
ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	NAD6567	476	\$16.50	
ANTENNA, 162-178MHZ WIDEBAND HELICAL	NAD6568	476	\$16.50	
Battery				
Description	Nomenclature	APC	Price	
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	NNTN6263	453	\$137.00	
PREM BATT NICD 1525 MAH	NTN9815B	453	\$100.00	
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	NTN9857C	453	\$132.00	
IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	NTN9858C	453	\$112.00	

Battery Maintenance Systems

Description	Nomenclature	APC	Price
NA FLEET MANAGEMENT LICENSE KEY	HKVN4036A	785	\$489.00
FLEET MANAGEMENT CHRGR INTERFACE UNIT	NNTN7677A	291	\$80.00
Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.			

Belt Clip(s)

Description	Nomenclature	APC	Price
BELT CLIP 2 1/4"	HLN6853	271	\$11.50

Bluetooth, Mission Critical Wireless

Description	Nomenclature	APC	Price
XTS BLUETOOTH ADAPTER	RMN5104A	742	\$179.00

Carrying Case(s)

Description	Nomenclature	APC	Price
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP Includes swivel belt loop and t-strap. 3.0" Snap NiCad or NiMH.	NNTN4115	271	\$60.00
LEATHER CASE W/HIGH ACTIVITY 2.5" SWIVEL BELT LOOP Includes swivel belt loop and t-strap. 2.5" Snap NiCad or NiMH.	NNTN4116	271	\$60.00
LEATHER CASE W/SNAP BELT LOOP & T-STRAP Includes snap belt loop and t-strap. For NiCad or NiMH.	NNTN4117	271	\$60.00
LEATHER T-STRAP, PLAIN ACTION SNAP	NTN8383	476	\$10.50
LEATHER T-STRAP, HARD ACTION SNAP WITH ADDITIONAL STRENGTH AT SNAP	NTN8384	476	\$10.50

Charger

Description	Nomenclature	APC	Price
CHARGER, 110 VOLT, US PLUG	NTN1667	476	\$100.00
VEHICULAR TRAVEL CHARGER Utilizes the cigarette lighter adapter. INCLUDES: mounting bracket, custom coil cord, and charger. Travel charger is best used and compatible with 2" belt clip.	RLN4884	785	\$95.00
IMPRES CHARGER	WPLN4111AR	785	\$165.00
IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	WPLN4112BR	785	\$165.00

Commport Integrated Microphone/Receiver

Description	Nomenclature	APC	Price
COMMPORT WITH PALM PTT CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$419.00
COMMPORT WITH PTT ON RADIO ADAPTER CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00
COMMPORT WITH SNAP-ON SIDE PTT CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00

Earpieces

Description	Nomenclature	APC	Price
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE UL Approved	AARLN4885	742	\$25.00
EAR MICROPHONE FOR STANDARD NOISE LEVELS, BLACK Designed to pick up the voice through bone vibrations directly in the ear canal. Complete system consists of an Ear microphone and the corresponding Radio Interface Module (PTT or VOX). For noise levels up to 95 db. Requires Interface Module. *HT750, HT1250 & PR1500 - Intrinsically Safe (FM) Note: VOX is not recommended for trunking operation.	BDN6677	742	\$198.00
EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE) *HT1000, XTS 3000, requires BDN6676 (3.5mm adapter jack) that attaches to the radio. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM) *XTS 5000 & XTS 2500 requires BDN6676. Intrinsically Safe (FM). Assembled (receive only) with volume control & standard urethane earloop. *PR1500 - requires BDN6676 - Intrinsically Safe (FM)	BDN6781	742	\$27.00
D-SHELL RX-ONLY EARPIECE(3.5MM)	PMLN4620A	742	\$19.00
BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	PMLN5464	742	\$395.00
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	RLN6230A	742	\$32.00
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	RLN6241A	742	\$20.00
QUICK DISCONNECT ACOUSTIC TUBE	RLN6242A	742	\$7.90
EAR RCVR W/COIL CBL&3.5MM PLUG	WADN4190B	742	\$43.00

Headsets

Description	Nomenclature	APC	Price
HEADSET LIGHTWEIGHT Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)	NMN6245	785	\$149.00
MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM) Medium Weight Headset, Over the Head, with In-Line PTT - Noise Reduction Rating = 24dB	NMN6258	742	\$389.00
MED DUTY HEADSET,BEHIND-THE-HEAD, W/IN-LINE PTT-NRR= 24DB-INTRIN (FM) Medium Weight Headset, Behind the Head, with In-Line PTT - Noise Reduction Rating = 24dB	NMN6259	742	\$425.00
HEAVY DUTY HEADSET PMLN5278B	PMLN5278B	742	\$439.00

Multi Unit Chargers

- . . .

IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY

Nomenclature	APC	Price
WPLN4108 R	785	\$788.00

Data Compiled 16-Feb-2015 using DUP and all prices in USD

**ASTRO® Digital XTS 2500 Portable Series
UHF Range 1 and UHF Range 2
Wide Area SmartZone® "Handie-Talkie™" Radio
Trunked Radio Systems**



XTS 2500 Last Order Entry Date : October 31, 2014

XTS 2500 Last Scheduled Ship Date: November 30, 2014

[XTS 2500 Notification of Intent to Cancel Memo](#)

**** Alternative products include the APX Series **– [APX6000/ APX6000XE/ APX6000Li/APX4000](#)**

Special Note for United States - State & Local Markets only:

In accordance with FCC mandate, the XTS 2500 UHF R1 & UHF R2 products operating on Part 90 frequencies will be restricted to 12.5kHz or narrower operations on Jan. 1, 2013

******Please note that NEW version of Customer Programming Software (CPS) (Part # RVN4181/ RVN4186) is required for initial customer orders for XTS radios. ******

[Ship Card](#)

Features

All ASTRO Digital XTS 2500 packaged models include the following hardware features:

- 3 Programmable Side Buttons
- Orange Emergency Button
- 16 Position Mode Rotary Select Switch
- On/Off Volume
- Low Battery Alert Tone
- Antenna (Bandsplit and Type Dependent on Band Option)
- Noise Reduction Software
- 1 Top Mounted Programmable Three Position Concentric Switch
- Weather Sealed Universal Connector
- Bi-Color LED Indicator
- Nickel Metal Hydride Battery (NTN9858)
- Detachable Belt Clip
- ASTRO 25
- Audio Gain Control

ASTRO Digital XTS 2500 Model I.5, II and III also include:

- DTMF Telephone Interconnect Capability (Model III ONLY)
- Keypad Tone Mute

- 6 Lines Alphanumeric Display (NO Model I)
- Date and Time Stamp
- Hardware Encryption (Not Available on Model 1)
- Large Navigational Keypad
- Real Time Clock

All ASTRO Digital XTS 2500 Portables are part of the FLASHport program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent upon remaining within the same RF deck.) ****Please note that Models 1 and 2 are not available in the Asia Pacific Region****

Physiological Monitoring Solution

Physiological Monitoring is now available on the ASTRO 25 XTS5000 and XTS2500 portable radios. The Zephyr BioHarness™ BT couples the pioneering Smart Fabric sensor technology of the comfortable and unobtrusive BioHarness™ garment with the power and ubiquity of Bluetooth®. BioHarness™ BT enables the capture and transmission of comprehensive physiological data on the wearer exclusively via MOTOROLA ASTRO RADIOS – enabling genuine remote monitoring of human performance and condition in the real world.

The BioHarness™ BT can be used in a diverse range of areas including sports, defense, first responder and healthcare. Its professional-grade BioHarness™ system monitors conditions such as heat state, dehydration or injury by measuring vital signs including heart rate, breathing rate, skin temperature, posture and activity. Using the subject's voice radio, the BioHarness communicates to monitoring software designed to give real-time alerts and post-event analysis.

BioHarness™ BT can be worn in virtually any environment – from combat situations to the training field. It maintains performance under extreme activity. Offering fast, accurate collection and analysis of high-quality, in-depth data, BioHarness™ BT is the definitive product for remote physiological monitoring in all conditions.

[Zephyr Physiological Monitoring Ordering Guide](#)

General Information

The ASTRO Digital XTS 2500 Portable Line offers three different radio hardware models:

Hardware Model	Modes	Alphanumeric Display	Keypad	Navigation Pad
		Lines/Characters		
		per Line		
ASTRO XTS 2500 Model I	48	None	None	No
ASTRO XTS 2500 Model 1.5	256	6/12/front mount	None	No
ASTRO XTS 2500 Model II	870	6/12/front mount	3 x 2	Yes
ASTRO XTS 2500 Model III	870	6/12/front mount	3 x 6	Yes

Operating Modes

ASTRO Digital XTS 2500 Radio Models are capable of operating in three different voice communication modes:

- Normal Analog (clear voice)
- 3.6KB ASTRO Digital (clear voice)
- 9.6KB ASTRO 25 Digital (clear voice)

The ASTRO Digital XTS 2500 Portable is capable of 48 modes when the programmable Concentric Top Mounted Switch is used for Zone Operation. The mode of operation is programmed on a channel-by-channel basis.

Please note that the XTS 2500 does NOT support FRED.

CHANNEL SPACING

There are no maximum frequency separation conditions that must be adhered to on the ASTRO Digital XTS 2500 Portable Radio Series. Separation of frequencies can be as wide as the allowable sub-band per radio model with no degradation of any performance specifications. If an incorrect antenna is used, degraded performance may be experienced.

FIPS 140-2 Compliance

Encryption Modules equipped with AES are FIPS 140-2 compliant. Further information regarding FIPS 140-2 certification may be found using the following links:

[FIPS 140-2 Crypto Module Validation Program \(CMVP\)](#)

[NIST Cryptographic Module Validation Lists](#)

FLASHport® AFTERMARKET UPGRADES

The ASTRO Digital XTS 2500 Portable Series Radios are part of the FLASHport Program. This means that ASTRO Digital XTS 2500 hardware models can be

loaded with different software packages that provide the features and functionalities that your customers require. Three different hardware models are available in each band split.

The ASTRO Digital XTS 2500 portable can be upgraded electronically (via RS232 cable or USB cable are required for all software upgrades) in the field with new systems operation (contingent upon remaining within the same RF sub-band) by ordering upgrade kits.

FM INFORMATION

The XTS 2500 portable radio when properly equipped with options H223, Q393 or Q393SUBM are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, II, III, Groups C, D, E, F, G, T3 without encryption modules.

The XTS 2500 portable radio when properly equipped with options H223, Q393 or Q393SUBM are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, Class II, Class III, Groups D, F, G, T3C with encryption modules.

ASTRO TEXT MESSAGING SERVICE

ASTRO Text Messaging Service will be available on ASTRO 25 XTS 5000, XTS 2500 Portable radios and ASTRO 25 XTL 5000, XTL 2500 Mobile radios. Text Messaging Service (TMS) allows subscriber users to send and receive text messages to other subscribers or dispatch operators. Users can select messages and addresses from a predefined list or enter freeform text messages and addresses via the keypad. Text Messaging Service is available on ASTRO Trunked IV&D Systems and Subscribers. Subscribers must have version R09.00.00 or later of both Customer Programming Software (CPS) and Radio software.

For full Text Messaging functionality, including freeform text messaging and addressing, must order Model III XTS2500 portables. Model II versions support Limited Text Messaging functionality such as selecting predefined messages or addresses from a list programmed in the radio. Text messaging service is NOT supported on Model I Portables.

Ordering requirements for XTS 2500 Portable:

- Requires Model II or Model III XTS 2500
- Software Trunking 9600 Baud (Q574)
- Packet Data Interface (Q947)

NOTE: There is no specific option to order for the Text Messaging Service on the subscribers as the functionality is included in the Packet Data option.

RELATIVE RADIATED RECEIVE SENSITIVITY

The relative radiated receive sensitivity test (formerly referred to as self-quieters) measures the sensitivity from 380-520 MHz in 12.5kHz steps. The radio is set to 25kHz channel mode. These measurements were taken in a shielded environment so that degraded sensitivity at discrete frequencies is known to be due to the radio's self-interference (as opposed to external interference). The following list contains frequencies which were consistently found to have severely degraded performance on all measured radios (secure and non-secure): 381.535 (secure), 386.400, 389.490 (secure), 393.195, 396.000, 396.300, 405.380 (secure), 413.330 (secure), 414.000, 415.500, 417.770, 420.000, 421.280 (secure), 426.600, 429.230 (secure), 432.000, 432.6125, 434.700, 436.800, 442.3438, 450.000, 453.600, 456.000, 460.800, 462.000, 466.920, 468.000, 470.400, 474.000, 480.000, 486.000, 487.200, 491.490, 492.000 (secure), 497.6950 (secure), 498.000, 502.200 (secure), 504.000, 512.400, 516.000, 516.070, 517.440, 519.120

UPDATED LIST OF FREQUENCIES NOT ALLOWED

When a Platform A radio is repaired with a Platform B RF board there will be additional frequencies that are not recommended to be used. The following list contains frequencies which were consistently found to have severely degraded performance on all measured radios (secure and non-secure):

VHF (136 to 174 MHz) 140.5, 144, 147.4475, 147.4575, 151.2*, 151.735*, 153.6*, 159.745, 162, 162.295, 165.9, 168*, 170.3975, 172.02

UHF Range 1 (380 to 470 MHz) 381.535, 384, 389.49, 393.195, 396*, 397.4375, 405.38, 413.33, 414*, 415.5, 417.77, 420*, 421.28, 429.23, 429.544, 431.1, 432*, 432.613, 437.18125, 442.344, 445.13125, 450*, 460.8, 466.92, 468*

UHF Range 2 (450 to 520 MHz) 450, 453.6*, 456*, 460.8*, 462, 466.91875, 468*, 469.425, 470.4*, 474, 475.5*, 480, 486*, 487.2*, 491.49375, 492, 497.705, 498, 502.2, 504, 510, 516, 516.065

700/800 MHz (764 – 776 MHz, 851 MHz – 870 MHz) 856.3375, 857.7000, 860.7000, 862.2000, 863.7000, 864.0000, 867.3000

Ordering Requirements

Ordering procedure is as follows:

- 1 H46QDC9PW7BN ASTRO XTS 2500 Portable**
- 1A Q574 9600 Trunking Digital Operation**
- 1B etc**

1. Order the ASTRO Digital XTS 2500 Portable Series as the main line item (H46QDC9PW7_N).
2. Each hardware model MUST be ordered with one Operating Mode. One Operating Mode Package MUST be ordered for each radio unit ordered. Choose between 9600 Trunking, 3600 Analog/ Digital Trunking, 3600 Analog and P25 Conventional Operation.

SOFTWARE FEATURES SUPPORTED BY			
Q574 Wide Area SmartZone / Q575 Wide Area SmartZone / Q443 Wide Area Analog SmartZone/ Q811 P25 Digital Conventional			
"ASTRO Digital"(Q575)	"ASTRO Digital"(Q574)	3600 Analog (Q443)	P25 Conventional (Q811)

	Non-Project 25 (3600 Baud)	Project 25 (9600 Baud)	Type II (3600 Baud)	Project 25 Conventional
RADIO WIDE FEATURES				
<i>Maximum Modes</i>				
ASTRO Digital XTS 2500 Model 1	16/48	16/48	16/48	16/48
ASTRO Digital XTS 2500 Model 1.5	256	256	256	256
ASTRO Digital XTS 2500 Model II & III	870	870	870	870
Analog and Digital Operation	Yes	Yes	Analog Only	Yes
12.5/20/25 KHz Programmable Channels	Yes	Yes	Yes	Yes
Secure Capable (Hardware Encryption Not Available on Model 1 Radios)	Yes	Yes	All but ADP	Yes
One Touch Operation	Yes	Yes	Yes	Yes
Real Time Clock	Yes	Yes	Yes	Yes
Surveillance Mode	Yes	Yes	Yes	Yes
Keypad Lock	Yes	Yes	Yes	Yes
Radio Lock	Yes	Yes	Yes	Yes
Smart (IMPRES) Battery	Yes	Yes	Yes	Yes
Radio Wide Transmit Inhibit	Yes	Yes	Yes	Yes
Time Out Timer	Yes	Yes	Yes	Yes
FLASHport	Yes	Yes	Yes	Yes
ANALOG CONVENTIONAL FEATURES				
Conventional Features are additional radio wide features beyond those specified above.				
CSQ/PL/DPL	Yes	Yes	Yes	Yes
Dual Priority Channel Scan	No	No	No	No
Repeater/Talkaround Operation	Yes	Yes	Yes	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes	Yes	Yes	Yes
Smart PTT	Yes	Yes	Yes	Yes
Monitor	Yes	Yes	Yes	Yes
DTMF Tone Generation	Yes	Yes	Yes	Yes
MDC-1200™ Call Lists (Call Alert/Select Call)	Yes	Yes	Yes	Yes
MDC-1200 Call Alert Encode/Decode	Yes	Yes	Yes	Yes
MDC-1200 Emergency Call	Yes	Yes	Yes	Yes
MDC-1200 Voice Selective Call Encode/Decode	Yes	Yes	Yes	Yes
MDC-1200 Remote Monitor Decode	Decode Only	Decode Only	Decode Only	Decode Only
MDC-1200 Silent Emergency Alarm	Yes	Yes	Yes	Yes
MDC-1200 Selective Radio Inhibit Decode	Decode Only	Decode Only	Decode Only	Decode Only
MDC-1200 Radio Check Decode	Decode Only	Decode Only	Decode Only	Decode Only
MDC-1200 PTT-ID Decode/Encode	Yes	Yes	Yes	Yes
MDC Repeater Access	Yes	Yes	Yes	Yes
MDC Request to Talk (RTT)	Yes	Yes	Yes	Yes
MDC Status, Status Request, Message	Yes	Yes	Yes	Yes
DIGITAL CONVENTIONAL SIGNALING FEATURES				
These features are APCO Project 25 Conventional Interoperable Features when used in the ASTRO Digital CAI Mode (Q806).				
Unaddressed Voice Call	Yes	Yes	No	Yes
Talk Group Call	Yes	Yes	No	Yes
Group Call Alert™	Yes	Yes	No	Yes
Talk Group Identification (TGID)	Yes	Yes	No	Yes
Selective Call (Individual Voice Call)	Yes	Yes	No	Yes
PTT ID (Individual Identification)	Yes	Yes	Yes	Yes
Call Alert Encode/Decode	Yes	Yes	No	Yes
Emergency Alarm w/Channel Revert & Ack.	Yes	Yes	No	Yes
Telephone Interconnect	Yes	Yes	No	Yes
Selective Radio Inhibit	Yes	Yes	No	Yes
Radio Check	-	-	No	-
Status/Message	Yes	Yes	No	Yes
Trunking Type II Only Features				
Maximum Number of Trunked Systems-20	Yes	Yes	Yes	No
Talkgroup Calls	Yes	Yes	Yes	No
PTT ID (Digital Only)	Yes	Yes		Yes

			Yes	
Call Alert Encode/Decode	Yes	Yes	Yes	No
Dual Mode Scan	Yes	No	Yes	No
Failsoft by Talkgroup	Yes	Yes	Yes	No
Telephone Interconnect Encode/Decode	Yes	Yes	Yes	No
System Wide Call (Receive Only)	Yes	No	Yes	No
Selective Radio Inhibit	Yes	Yes	Yes	No
Priority Monitor Scan	Yes	Yes	Yes	No
Dynamic Regrouping	Yes	Yes	Yes	No
Status/Message	No	No	No	No
Private/Enhanced Conversation Encode/Decode	Yes	Yes	Yes	No
Radio Check	No	No	No	No
Remote Monitor/Radio Trace	Yes	No	Yes	Yes
Reprogram Request	No	No	No	No
SmartZone Trunking Type II Only Features				
Adaptive Power Control	Yes	Yes	Yes	No
Voice on Control	Future	Future	Future	No
SmartZone Automatic Site Registration	Yes	Yes	Yes	No
SmartZone RSSI Operation	Yes	Yes	Yes	No
SmartZone Preferred Site	Yes	Yes	Yes	No
SmartZone Forced Site Search	Yes	Yes	Yes	No
SmartZone Site Lock/Unlock	Yes	Yes	Yes	No
SmartZone Adjacent Control Channel OSW	Yes	Yes	Yes	No
Emergency Alarm Call Receive Indication	Yes	Yes	Yes	No

Legend:

Blue=Feature to be added in a Future Release

FCC Information

FCC IDENTIFIER: AZ489FT4865

Name of Grantee: Motorola Solutions, Inc.

Equipment Class: Licensed Non-Broadcast Transmitter Held to Face
Notes: HAND HELD PORTABLE 2-WAY RADIO

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
BE	90	380.0 - 470.0	5.9	2.0 PM	16K0F3E
BE	90	380.0 - 470.0	5.9	2.0 PM	11K0F3E
BE	90	380.0 - 470.0	5.9	2.0 PM	8K10F1E
BE	90	380.0 - 470.0	5.9	2.0 PM	8K10F1D
BE	90	380.0 - 470.0	5.9	2.0 PM	20K0F1E

FCC IDENTIFIER: AZ489FT4866

Name of Grantee: Motorola Solutions, Inc.

Equipment Class: Licensed Non-Broadcast Transmitter Held to Face
Notes: HAND HELD PORTABLE 2-WAY R4ADIO

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
BE	80, 90, 90.210	450.0 - 520.0	6.0	2.0 PM	16K0F3E
BE	80, 90, 90.210	450.0 - 450.0	6.0	2.0 PM	11K0F3E
BE	80, 90, 90.210	450.0 - 520.0	6.0	2.0 PM	8K10F1E
BE	80, 90, 90.210	450.0 - 520.0	6.0	2.0 PM	8K10F1D
BE	80, 90, 90.210	450.0 - 520.0	6.0	2.0 PM	20K0F1E

SUB-BAND PERFORMANCE	
UHF R1	380-470 MHz in all models
UHF R2	450-520 MHz in all models

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

[XTS 2500 PORTABLE RADIO SPEC SHEET](#)

ASTRO Advanced Messaging Solution (AMS)

The ASTRO 25 Advanced Messaging Solutions is the latest messaging platform from Motorola Solutions and will replace ASTRO Text Messaging Service (TMS). As a complete end-to-end solution it leverages the core assets of ASTRO 25 IV&D/CID networks, ASTRO 25 radios, Integrated Command Center applications and Unified Network Services. The application allows responders to send/receive messages and run database queries from ASTRO 25 data enabled portable radios, extending real time information access to the field so dispatchers and first responders can be more efficient and achieve safer outcomes.

Provides functional parity with TMS and leverages the PremierOne messaging services platform, offering multiple configurations to enhance and extend core messaging functionality that can include queries and dispatch notifications. Based upon the configuration chosen, ASTRO 25 Advanced Messaging Solution extends Computer Aided Dispatch (CAD) information beyond the vehicle to select ASTRO 25 Portable radios.

Many Public Safety agencies have experienced the benefits of messaging and sharing important information to/from the communication center (dispatch) and vehicles equipped with MDT's. With ASTRO 25 Advanced Messaging Solution we are extending that capability to responders when Outside the Vehicle.

ASTRO Advanced Messaging Solution will be available on XTS 2500 Dual Display Portable radios. Advanced Messaging is NOT supported on XTS 2500 Top Display Portable radios.

Ordering ASTRO Advanced Messaging Solution for XTS 2500 Portable Requires:

- . XTS 2500 Dual Display
 - . P25 Conventional (Q811)
 - . Packet Data Interface (Q947)
- OR**
- . XTS 2500 Dual Display
 - . ASTRO Project 25 Trunking Software (Q574/Q575)
 - . Packet Data Interface (Q947)

NOTE: There is no specific option to order for the Advanced Messaging Solution on the subscribers as the functionality is included in the Packet Data option. Also, the text messaging functionality carries a per-radio charge on the server side of \$50 (one time license fee to access messaging services) per radio. When adding query the fee is \$125 per radio. For additional ordering guidelines of the AMS feature which includes the server and radio license fees, please visit -

<http://ecat.comm.mot.com/ecat/pricebooks/dup/MCCP.htm>

Models

Description	Nomenclature	APC	Price
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Options

Accessories

Enhancements

Description	Nomenclature	APC	Price
ZEPHYR PSM APX SYSTEM BUNDLE Motorola System bundle includes Software CD, gateway programming cable, configuration block, documentation. 1 Required per laptop	DDN1131	407	\$1,920.00
ZEPHYR CARRYING CASE	DDN1132	571	\$750.00
ZEPHYR PSM RSM BUNDLE XS-MED Motorola PSM bundle includes 1 BT BioHarness, 1 side strap (XS - Med), 1 remote speaker microphone	DDN1133	407	\$883.00
ZEPHYR PSM RSM BUNDLE MED-XL Motorola PSM bundle includes 1 BT BioHarness, 1 side strap (med ? XL), 1 remote speaker microphone	DDN1134	407	\$883.00
ZEPHYR BT REMOTE SPEAKER MIC (RSM)	DDN1135	571	\$405.00
NONIN BT FINGER BLOOD OXIMITRY SPO2 Contains CNet Bluetooth V2.0 USB Adaptor containing drivers for wireless Bluetooth BP & SPO2 devices.	DDN1136	571	\$735.00
ZEPHYR BIOSHIRT RESPONDER - XXL	DDN1137	407	\$186.00
ZEPHYR BIOSHIRT RESPONDER - XL	DDN1138	407	\$186.00
ZEPHYR BIOSHIRT RESPONDER - LARGE	DDN1139	407	\$186.00
ZEPHYR BIOSHIRT RESPONDER - MED	DDN1140	407	\$186.00

ZEPHYR RSM CONFIGURATION BLOCK	DDN1141	571	\$200.00
ZEPHYR BIOSHIRT RESPONDER - SMALL	DDN1146	407	\$186.00
ZEPHYR OMNISENSE SW CD & DOCUMENTS	DDN1149	407	\$1,500.00
ZEPHYR BLUETOOTH BIOMODULE	DDN1150	407	\$815.00
ZEPHYR 4 BAY CHARGER W USA PLUGPACK	DDN1151	571	\$220.00
ZEPHYR XTS RID	DDN1159	407	\$375.00
ZEPHYR PSM RID BUNDLE XS-MED	DDN1160	571	\$908.00
Motorola PSM bundle includes 1 BT BioHarness, 1 side strap (XS - Med), 1 RID			
ZEPHYR PSM RID BUNDLE MED-XL	DDN1161	571	\$908.00
Motorola PSM bundle includes 1 BT BioHarness, 1 side strap (med ? XL), 1 RID			

Algorithm Kits

Description	Nomenclature	APC	Price
SECURE BOARD M1.5 AES Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4924A	205	\$811.00
SECURE BRD M1.5 DES,DES-XL,DES-OFB Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4925A	205	\$811.00
SECURE BOARD M1.5 ADP Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4926A	205	\$690.00
SECURE BOARD M2 AES Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4927A	205	\$811.00
SECURE BRD M2 DES,DES-XL,DES-OFB Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4928A	205	\$749.00
SECURE BOARD M2 ADP Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4929A	205	\$690.00
SECURE BOARD M3 AES Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4930A	205	\$811.00
SECURE BRD M3 DES,DES-XL,DES-OFB Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4931A	205	\$811.00
SECURE BOARD M3 ADP Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4932A	205	\$690.00

Antenna

Description	Nomenclature	APC	Price
ANTENNA, 380-435MHZ UHF HELICAL	NAE6546	402	\$16.50
ANTENNA, 470-520MHZ UHF HELICAL	NAE6548	402	\$16.50

Battery

Description	Nomenclature	APC	Price
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	NNTN6263	453	\$137.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	NTN9857C	453	\$132.00
IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	NTN9858C	453	\$112.00
BATTERY STD IP54 LIION 2700M2900T	PMNN4454AR	453	\$85.00

Battery Maintenance Systems

Description	Nomenclature	APC	Price
NA FLEET MANAGEMENT LICENSE KEY	HKVN4036A	785	\$489.00
FLEET MANAGEMENT CHRGR INTERFACE UNIT Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$80.00

Belt Clip(s)

Description	Nomenclature	APC	Price
BELT CLIP 2 1/4"	HLN6853	271	\$11.50

Bluetooth, Mission Critical Wireless

Description	Nomenclature	APC	Price
XTS BLUETOOTH ADAPTER	RMN5104A	742	\$179.00

Cable(s)

Description	Nomenclature	APC	Price
CABLE- PROGRAMMING USB DOES NOT require Smart Rib. This cable MUST be ordered or the RKN4106 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No RIB Box required.	RKN4105	261	\$237.00
CABLE- PROGRAMMING, RS232 This cable MUST be ordered or the RKN4105 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No RIB Box required.	RKN4106	261	\$251.00

Carrying Case(s)

Description	Nomenclature	APC	Price
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP Includes swivel belt loop and t-strap. 3.0" Snap NiCad or NIMH.	NNTN4115	271	\$60.00
LEATHER CASE W/HIGH ACTIVITY 2.5" SWIVEL BELT LOOP Includes swivel belt loop and t-strap. 2.5" Snap NiCad or NIMH.	NNTN4116	271	\$60.00
LEATHER CASE W/SNAP BELT LOOP & T-STRAP Includes snap belt loop and t-strap. For NiCad or NIMH.	NNTN4117	271	\$60.00
LEATHER T-STRAP PLAIN ACTION SNAP			

LEATHER T-STRAP, HARD ACTION SNAP WITH ADDITIONAL STRENGTH AT SNAP	NTN8383	476	\$10.50
	NTN8384	476	\$10.50

Charger

Description	Nomenclature	APC	Price
CHARGER, 110 VOLT, US PLUG	NTN1667	476	\$100.00
CHARGER, IMPRES RAPID RATE, 220V EURO PLUG	NTN1874	785	\$165.00
Rapid charger, NiCad, NiMH, & Lithium batteries are for ALL XTS, MTS, MT, JT, and HT (WPLN4114AR, 2 prong Euro 3004209T01 Cord)			
VEHICULAR TRAVEL CHARGER	RLN4884	785	\$95.00
Utilizes the cigarette lighter adapter. INCLUDES: mounting bracket, custom coil cord, and charger. Travel charger is best used and compatible with 2" belt clip.			
IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	WPLN4112BR	785	\$165.00
SINGLE BASE ONLY	WPLN4114AR	785	\$160.00
IMPRES SINGLE CHARGER 110-230V US PLUG, EURO MANUAL	WPLN4117 R	785	\$165.00

Commport Integrated Microphone/Receiver

Description	Nomenclature	APC	Price
COMMPORT WITH PALM PTT	NTN1624	115	\$419.00
CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.			
COMMPORT WITH PTT ON RADIO ADAPTER	NTN1625	115	\$419.00
CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.			
COMMPORT WITH SNAP-ON SIDE PTT	NTN1736	115	\$429.00
CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.			

Earpieces

Description	Nomenclature	APC	Price
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	AARLN4885	742	\$25.00
UL Approved			
EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE)	BDN6781	742	\$27.00
*HT1000, XTS 3000, requires BDN6676 (3.5mm adapter jack) that attaches to the radio.			
*EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)			
*XTS 5000 & XTS 2500 requires BDN6676. Intrinsically Safe (FM). Assembled (receive only) with volume control & standard urethane earloop.			
*PR1500 - requires BDN6676 - Intrinsically Safe (FM)			
D-SHELL RX-ONLY EARPIECE(3.5MM)	PMLN4620A	742	\$19.00
BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	PMLN5464	742	\$395.00
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	RLN6230A	742	\$32.00
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	RLN6241A	742	\$20.00
QUICK DISCONNECT ACOUSTIC TUBE	RLN6242A	742	\$7.90
EAR RCVR W/COIL CBL&3.5MM PLUG	WADN4190B	742	\$43.00

Hardware

Description	Nomenclature	APC	Price
FPP CONNECTOR PROGRAMMING KEY	PMTN4113	407	\$150.00
This connector key (dongle) is required while utilizing FPP.			

Headsets

Description	Nomenclature	APC	Price
HEADSET LIGHTWEIGHT	NMN6245	785	\$149.00
Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM)			
EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)			
MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)	NMN6258	742	\$389.00
Medium Weight Headset, Over the Head, with In-Line PTT - Noise Reduction Rating = 24dB			
MED DUTY HEADSET, BEHIND-THE-HEAD, W/IN-LINE PTT-NRR= 24DB-INTRIN (FM)	NMN6259	742	\$425.00
Medium Weight Headset, Behind the Head, with In-Line PTT - Noise Reduction Rating = 24dB			
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	RMN4049	742	\$225.00
Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.			
RUGGED TEMPLE TRANSDUCER HEADSET	RMN5049	742	\$340.00
Features a noise cancelling boom microphone and In-Line PTT			

Microphones

Description	Nomenclature	APC	Price
SPKR MIC NON-SUBMSBL,GPS RSM	HMN4084	372	\$350.00
HMN4084 has the Earjack. Not compatible with Man-Down Side connector (NTN7660) or Clamshell Battery Holder (Q495, Q496, NTN9177, NTN9183). When used with XTS 2500, requires B version board. INCLUDES GPS RSM User guide (6881098C03).			
REMOTE SPEAKER MICROPHONE, IP57	PMMN4038A	372	\$88.50
REMOTE SPEAKER MIC, NC	PMMN4045B	372	\$97.00
REMOTE SPEAKER MIC, RX-JACK	PMMN4051B	372	\$89.00

Multi Unit Chargers

Description	Nomenclature	APC	Price
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	WPLN4108 R	785	\$788.00
IMPRES MULTI CHARGER 230V UK 3 PIN PLUG NON DISPLAY	WPLN4110 R	785	\$788.00

Public Safety Microphone(s)

Description	Nomenclature	APC	Price
PSM STRAIGHT CABLE 30IN	RMN5072B	372	\$160.00
PSM STRAIGHT CABLE 24IN	RMN5073B	372	\$160.00

Description	Nomenclature	APC	Price
	RMN5074B	372	\$160.00
Surveillance			
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	BDN6664	742	\$40.00
1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved			
EARPIECE RECEIVE ONLY WITH EXTRA LOUD EARPHONE - BEIGE (SINGLE WIRE)	BDN6665	742	\$42.00
1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved			
EARPIECE RECEIVE ONLY WITH VOLUME CONTROL - BEIGE (SINGLE WIRE)	BDN6666	742	\$53.00
1-Wire Receive-Only Surveillance Kit with Volume Control and Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved			
EARPIECE WITH MICROPHONE & PTT COMBINED - BEIGE (2 WIRE)	BDN6667	742	\$114.00
2-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved			
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	BDN6668	742	\$135.00
3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved			
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	BDN6669	742	\$118.00
2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved			
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	BDN6670	742	\$150.00
3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved			
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	BDN6726	742	\$40.00
1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved			
EARPIECE RECEIVE ONLY WITH VOLUME CONTROL - BLACK (SINGLE WIRE)	BDN6728	742	\$53.00
1-Wire Receive-Only Surveillance Kit with Volume Control and Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 3000 requires BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 requires new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved			
EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	BDN6729	742	\$114.00
2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 require BDN6676 adapter. FM Approved			
EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	BDN6730	742	\$135.00
3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS requires PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved			
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	BDN6731	742	\$118.00
2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved			
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	BDN6732	742	\$150.00
3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved			
COMPLETELY DISCREET EARPIECE KIT	RLN4922	742	\$340.00
Wireless Earpiece, communicates to the radio through an inductive neckloop. The kit includes the wireless receiver, six spare batteries and five spare earguards			

Customer Programming Software

Description	Nomenclature	APC	Price
SOFTWARE,CPS R20.00.00 ASTRO 25 PORTABLE	RVN4181AV	371	\$265.00

Manual(s)

Description	Nomenclature	APC	Price
MANUAL USER GUIDE XTS2500 MODEL I Operations/User's manual PAPER.	6881094C04	205	\$11.25
USER GUIDES CD XTS2500	9985898D01	001	\$11.00
MANUAL CD SERVICE ENGLISH XTS 1500, 2500, AND MT 1500 XTS2500, XTS1500, MT1500 BASIC SERVICE MANUAL PAPER	9985899D01	001	\$11.00
MANUAL CD SERVICE AND THEORY ENGLISH XTS 1500, 2500, AND MT 1500 XTS2500, XTS1500, MT1500 BASIC SERVICE MANUAL PAPER	9985900D01	207	\$33.50

Data Compiled 16-Feb-2015 using DUP and all prices in USD

**ASTRO® Digital XTS 2500 Portable Series
VHF
Wide Area SmartZone® "Handie-Talkie™" Radio
Trunked Radio Systems**

XTS 2500 Last Order Entry Date : October 31, 2014

XTS 2500 Last Scheduled Ship Date: November 30, 2014

XTS 2500 Notification of Intent to Cancel Memo

**** Alternative products include the APX Series **– APX6000/ APX6000XE/ APX6000Li/APX4000**



Special Note for United States - State & Local Markets only:

In accordance with FCC mandate, the XTS 2500 VHF products operating on Part 90 frequencies will be restricted to 12.5kHz or narrower operations on Jan. 1, 2013

****Please note that NEW version of Customer Programming Software (CPS) (Part # RVN4181/ RVN4186) is required for initial customer orders for XTS radios. ****

[Ship Card](#)

Features

All ASTRO Digital XTS 2500 packaged models include the following hardware features:

- | | |
|---|--|
| <ul style="list-style-type: none"> • 3 Programmable Side Buttons • Orange Emergency Button • 16 Position Mode Rotary Select Switch • On/Off Volume • Low Battery Alert Tone • Antenna (Bandsplit and Type Dependent on Band Option) • Noise Reduction Software | <ul style="list-style-type: none"> • 1 Top Mounted Programmable Three Position Concentric Switch • Weather Sealed Universal Connector • Bi-Color LED Indicator • IMPRES Nickel Metal Hydride Battery (NTN9858) • Detachable Belt Clip • ASTRO 25 • Audio Gain Control |
|---|--|

ASTRO Digital XTS 2500 Model I.5, II and III also include:

- | | |
|---|--|
| <ul style="list-style-type: none"> • DTMF Telephone Interconnect Capability (Model III ONLY) | <ul style="list-style-type: none"> • Keypad Tone Mute (Model II and III only) |
|---|--|

- 6 Lines Alphanumeric Display (No Model I)
- Date and Time Stamp
- Hardware Encryption (Not Available on Model 1)
- Large Navigational Keypad (Model II and III only)
- Real Time Clock

All ASTRO Digital XTS 2500 Portables are part of the FLASHport program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent upon remaining within the same RF deck.) ****Please note that Models 1 and 2 are not available in the Asia Pacific Region****

Physiological Monitoring Solution

Physiological Monitoring is now available on the ASTRO 25 XTS5000 and XTS2500 portable radios. The Zephyr BioHarness™ BT couples the pioneering Smart Fabric sensor technology of the comfortable and unobtrusive BioHarness™ garment with the power and ubiquity of Bluetooth®. BioHarness™ BT enables the capture and transmission of comprehensive physiological data on the wearer exclusively via MOTOROLA ASTRO RADIOS – enabling genuine remote monitoring of human performance and condition in the real world.

The BioHarness™ BT can be used in a diverse range of areas including sports, defense, first responder and healthcare. Its professional-grade BioHarness™ system monitors conditions such as heat state, dehydration or injury by measuring vital signs including heart rate, breathing rate, skin temperature, posture and activity. Using the subject’s voice radio, the BioHarness communicates to monitoring software designed to give real-time alerts and post-event analysis.

BioHarness™ BT can be worn in virtually any environment – from combat situations to the training field. It maintains performance under extreme activity. Offering fast, accurate collection and analysis of high-quality, in-depth data, BioHarness™ BT is the definitive product for remote physiological monitoring in all conditions.

[Zephyr Physiological Monitoring Ordering Guide](#)

General Information

The ASTRO Digital XTS 2500 Portable Line offers three different radio hardware models:

Hardware Model	Modes	Alphanumeric Display	Keypad	Navigation Pad
		Lines/Characters		
		per Line		
ASTRO XTS 2500 Model I	48	None	None	No
ASTRO XTS 2500 Model I.5	256	6/12/front mount	None	No
ASTRO XTS 2500 Model II	870	6/12/front mount	3 x 2	Yes
ASTRO XTS 2500 Model III	870	6/12/front mount	3 x 6	Yes

Operating Modes

ASTRO Digital XTS 2500 Radio Models are capable of operating in three different voice communication modes:

- Normal Analog (clear voice)
- 3.6KB ASTRO Digital (clear voice)
- 9.6KB ASTRO 25 Digital (clear voice)

The ASTRO Digital XTS 2500 Portable is capable of 48 modes when the programmable Concentric Top Mounted Switch is used for Zone Operation. The mode of operation is programmed on a channel-by-channel basis.

Please note that the XTS 2500 does NOT support FRED.

CHANNEL SPACING

There are no maximum frequency separation conditions that must be adhered to on the ASTRO Digital XTS 2500 Portable Radio Series. Separation of frequencies can be as wide as the allowable sub-band per radio model with no degradation of any performance specifications. If an incorrect antenna is used, degraded performance may be experienced.

FIPS 140-2 Compliance

Encryption Modules equipped with AES are FIPS 140-2 compliant. Further information regarding FIPS 140-2 certification may be found using the following links:

[FIPS 140-2 Crypto Module Validation Program \(CMVP\)](#)

[NIST Cryptographic Module Validation Lists](#)

FLASHport® AFTERMARKET UPGRADES

The ASTRO Digital XTS 2500 Portable Series Radios are part of the FLASHport Program. This means that ASTRO Digital XTS 2500 hardware models can be loaded with different software packages that provide the features and functionalities that your customers require. Three different hardware models are available in each band split.

The ASTRO Digital XTS 2500 portable can be upgraded electronically (via RS232 cable or USB cable are required for all software upgrades) in the field with new systems operation (contingent upon remaining within the same RF sub-band) by ordering upgrade kits.

FM INFORMATION

The XTS 2500 portable radio when properly equipped with options H223, Q393 or Q393SUBM are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, II, III, Groups C, D, E, F, G, T3 without encryption modules.

The XTS 2500 portable radio when properly equipped with options H223, Q393 or Q393SUBM are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, Class II, Class III, Groups D ,F, G, T3C with encryption modules.

ASTRO TEXT MESSAGING SERVICE

ASTRO Text Messaging Service will be available on ASTRO 25 XTS 5000, XTS 2500 Portable radios and ASTRO 25 XTL 5000, XTL 2500 Mobile radios. Text Messaging Service (TMS) allows subscriber users to send and receive text messages to other subscribers or dispatch operators. Users can select messages and addresses from a predefined list or enter freeform text messages and addresses via the keypad. Text Messaging Service is available on ASTRO Trunked IV&D Systems and Subscribers. Subscribers must have version R09.00.00 or later of both Customer Programming Software (CPS) and Radio software.

For full Text Messaging functionality, including freeform text messaging and addressing, must order Model III XTS2500 portables. Model II versions support Limited Text Messaging functionality such as selecting predefined messages or addresses from a list programmed in the radio. Text messaging service is NOT supported on Model I Portables.
Ordering requirements for XTS 2500 Portable:

- Requires Model II or Model III XTS 2500
- Software Trunking 9600 Baud (Q574)
- Packet Data Interface (Q947)

NOTE: There is no specific option to order for the Text Messaging Service on the subscribers as the functionality is included in the Packet Data option.

RELATIVE RADIATED RECEIVE SENSITIVITY

The relative radiated receive sensitivity test (formerly referred to as self-quieters) measures the sensitivity from 136.05MHz to 173.975MHz in 12.5kHz steps. The radio is set to 25kHz channel mode. These measurements were taken in a shielded environment so that degraded sensitivity at the discrete frequencies is known to be due to the radio's self-interference (as opposed to external interference.) The following list contains frequencies which were consistently found to have severely degraded performance on all measured radios: 147.4450, 147.4475, 147.4500, 151.1975, 151.2000, 153.6000, 161.9975, 162.000, 162.0025, 165.8975, 165.9000, 165.9025, 167.9975, 168.000, 168.0025, 172.0200, 172.0225.

UPDATED LIST OF FREQUENCIES NOT ALLOWED

When a Platform A radio is repaired with a Platform B RF board there will be additional frequencies that are not recommended to be used. The following list contains frequencies which were consistently found to have severely degraded performance on all measured radios (secure and non-secure):

VHF (136 to 174 MHz) 140.5, 144, 147.4475, 147.4575, 151.2*, 151.735*, 153.6*, 159.745, 162, 162.295, 165.9, 168*, 170.3975, 172.02

UHF Range 1 (380 to 470 MHz) 381.535, 384, 389.49, 393.195, 396*, 397.4375, 405.38, 413.33, 414*, 415.5, 417.77, 420*, 421.28, 429.23, 429.544, 431.1, 432*, 432.613, 437.18125, 442.344, 445.13125, 450*, 460.8, 466.92, 468*

UHF Range 2 (450 to 520 MHz) 450, 453.6*, 456*, 460.8*, 462, 466.91875, 468*, 469.425, 470.4*, 474, 475.5*, 480, 486*, 487.2*, 491.49375, 492, 497.705, 498, 502.2, 504, 510, 516, 516.065

700/800 MHz (764 – 776 MHz, 851 MHz – 870 MHz) 856.3375, 857.7000, 860.7000, 862.2000, 863.7000, 864.0000, 867.3000

Ordering Requirements

Ordering procedure is as follows:

- 1 H46KDC9PW7BN ASTRO XTS 2500 Portable**
- 1A Q574 9600 Trunking Digital Operation**
- 1B etc**

1. Order the ASTRO Digital XTS 2500 Portable Series as the main line item (H46KDC9PW7_N).
2. Each hardware model MUST be ordered with one Operating Mode. One Operating Mode Package MUST be ordered for each radio unit ordered. Choose between 9600 Trunking and 3600 Analog/ Digital Trunking Operation.

SOFTWARE FEATURES SUPPORTED BY				
Q574 Wide Area SmartZone / Q575 Wide Area SmartZone / Q443 Wide Area Analog SmartZone/ Q811 P25 Digital Conventional				
	"ASTRO Digital"(Q575)	"ASTRO Digital"(Q574)	3600 Analog (Q443)	P25 Conventional (Q811)
	Non-Project 25	Project 25	Type II	Project 25
	(3600 Baud)	(9600 Baud)	(3600 Baud)	Conventional
RADIO WIDE FEATURES				

Maximum Modes				
ASTRO Digital XTS 2500 Model 1	16/48	16/48	16/48	16/48
ASTRO Digital XTS 2500 Model 1.5	256	256	256	256
ASTRO Digital XTS 2500 Model II & III	870	870	870	870
Analog and Digital Operation	Yes	Yes	Analog Only	Yes
12.5/20/25 KHz Programmable Channels	Yes	Yes	Yes	Yes
Secure Capable (Hardware Encryption Not Available on Model 1 Radios)	Yes	Yes	All but ADP	Yes
One Touch Operation	Yes	Yes	Yes	Yes
Real Time Clock	Yes	Yes	Yes	Yes
Surveillance Mode	Yes	Yes	Yes	Yes
Keypad Lock	Yes	Yes	Yes	Yes
Radio Lock	Yes	Yes	Yes	Yes
Smart (IMPRES) Battery	Yes	Yes	Yes	Yes
Radio Wide Transmit Inhibit	May 04'	May 04'	May 04'	May 04'
Time Out Timer	Yes	Yes	Yes	Yes
FLASHport	Yes	Yes	Yes	Yes
ANALOG CONVENTIONAL FEATURES				
Conventional Features are additional radio wide features beyond those specified above.				
CSQ/PL/DPL	Yes	Yes	Yes	Yes
Dual Priority Channel Scan	No	No	No	No
Repeater/Talkaround Operation	Yes	Yes	Yes	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes	Yes	Yes	Yes
Smart PTT	Yes	Yes	Yes	Yes
Monitor	Yes	Yes	Yes	Yes
DTMF Tone Generation	Yes	Yes	Yes	Yes
MDC-1200™ Call Lists (Call Alert/Select Call)	Yes	Yes	Yes	Yes
MDC-1200 Call Alert Encode/Decode	Yes	Yes	Yes	Yes
MDC-1200 Emergency Call	Yes	Yes	Yes	Yes
MDC-1200 Voice Selective Call Encode/Decode	Yes	Yes	Yes	Yes
MDC-1200 Remote Monitor Decode	Decode Only	Decode Only	Decode Only	Decode Only
MDC-1200 Silent Emergency Alarm	Yes	Yes	Yes	Yes
MDC-1200 Selective Radio Inhibit Decode	Decode Only	Decode Only	Decode Only	Decode Only
MDC-1200 Radio Check Decode	Decode Only	Decode Only	Decode Only	Decode Only
MDC-1200 PTT-ID Decode/Encode	Yes	Yes	Yes	Yes
MDC Repeater Access	Yes	Yes	Yes	Yes
MDC Request to Talk (RTT)	Yes	Yes	Yes	Yes
MDC Status, Status Request, Message	Yes	Yes	Yes	Yes
DIGITAL CONVENTIONAL SIGNALING FEATURES				
These features are APCO Project 25 Conventional Interoperable Features when used in the ASTRO Digital CAI Mode (Q806).				
Unaddressed Voice Call	Yes	Yes	No	Yes
Talk Group Call	Yes	Yes	No	Yes
Group Call Alert™	Yes	Yes	No	Yes
Talk Group Identification (TGID)	Yes	Yes	No	Yes
Selective Call (Individual Voice Call)	Yes	Yes	No	Yes
PTT ID (Individual Identification)	Yes	Yes	Yes	Yes
Call Alert Encode/Decode	Yes	Yes	No	Yes
Emergency Alarm w/Channel Revert & Ack.	Yes	Yes	No	Yes
Telephone Interconnect	Yes	Yes	No	Yes
Selective Radio Inhibit	Yes	Yes	No	Yes
Radio Check	-	-	No	-
Status/Message	Yes	Yes	No	Yes
Trunking Type II Only Features				
Maximum Number of Trunked Systems-20	Yes	Yes	Yes	No
Talkgroup Calls	Yes	Yes	Yes	No
PTT ID (Digital Only)	Yes	Yes	Yes	Yes
Call Alert Encode/Decode	Yes	Yes	Yes	No

Dual Mode Scan	Yes	No	Yes	No
Failsafe by Talkgroup	Yes	Yes	Yes	No
Telephone Interconnect Encode/Decode	Yes	Yes	Yes	No
System Wide Call (Receive Only)	Yes	No	Yes	No
Selective Radio Inhibit	Yes	Yes	Yes	No
Priority Monitor Scan	Yes	Yes	Yes	No
Dynamic Regrouping	Yes	Yes	Yes	No
Status/Message	No	No	No	No
Private/Enhanced Conversation Encode/Decode	Yes	Yes	Yes	No
Radio Check	No	No	No	No
Remote Monitor/Radio Trace	Yes	No	Yes	Yes
Reprogram Request	No	No	No	No
SmartZone Trunking Type II Only Features				
Adaptive Power Control	Yes	Yes	Yes	No
Voice on Control	Future	Future	Future	No
SmartZone Automatic Site Registration	Yes	Yes	Yes	No
SmartZone RSSI Operation	Yes	Yes	Yes	No
SmartZone Preferred Site	Yes	Yes	Yes	No
SmartZone Forced Site Search	Yes	Yes	Yes	No
SmartZone Site Lock/Unlock	Yes	Yes	Yes	No
SmartZone Adjacent Control Channel OSW	Yes	Yes	Yes	No
Emergency Alarm Call Receive Indication	Yes	Yes	Yes	No

Legend:
 Blue=Feature to be added in a Future Release

FCC Information

FCC IDENTIFIER: AZ489FT3807

Name of Grantee: Motorola Solutions, Inc.

Equipment Class: Licensed Non-Broadcast Transmitter Held to Face

Notes: Astro XTS2500 Digital Portable Radio

Modular Type: Does not apply

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
BC	90.210	136.0 - 174.0	5.7	2.5 PM	11K0F3E
BC	90	136.0 - 174.0	5.7	2.5 PM	16K0F3E
BC	90.210	136.0 - 174.0	5.7	2.5 PM	8K10F1D
BC	90.210	136.0 - 174.0	5.7	2.5 PM	8K10F1E
BC	80	136.0 - 174.0	5.7	2.5 PM	11K063E
BC	80	136.0 - 174.0	5.7	2.5 PM	16K0F3E
BC	80	136.0 - 174.0	5.7	2.5 PM	8K10F1D
BC	80	136.0 - 174.0	5.7	2.5 PM	8K10F1E

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

[XTS 2500 PORTABLE RADIO SPEC SHEET](#)

ASTRO Advanced Messaging Solution (AMS)

The ASTRO 25 Advanced Messaging Solutions is the latest messaging platform from Motorola Solutions and will replace ASTRO Text Messaging Service (TMS). As a complete end-to-end solution it leverages the core assets of ASTRO 25 IV&D/CID networks, ASTRO 25 radios, Integrated Command Center applications and Unified Network Services. The application allows responders to send/receive messages and run database queries from ASTRO 25 data enabled portable radios, extending real time information access to the field so dispatchers and first responders can be more efficient and achieve safer outcomes.

Provides functional parity with TMS and leverages the PremierOne messaging services platform, offering multiple configurations to enhance and extend core messaging functionality that can include queries and dispatch notifications. Based upon the configuration chosen, ASTRO 25 Advanced Messaging Solution extends Computer Aided Dispatch (CAD) information beyond the vehicle to select ASTRO 25 Portable radios.

Many Public Safety agencies have experienced the benefits of messaging and sharing important information to/from the communication center (dispatch) and vehicles equipped with MDT's. With ASTRO 25 Advanced Messaging Solution we are extending that capability to responders when Outside the Vehicle.

ASTRO Advanced Messaging Solution will be available on XTS 2500 Dual Display Portable radios. Advanced Messaging is NOT supported on XTS 2500 Top Display Portable radios.

Ordering ASTRO Advanced Messaging Solution for XTS 2500 Portable Requires:

- . XTS 2500 Dual Display
 - . P25 Conventional (Q811)
 - . Packet Data Interface (Q947)
- OR**
- . XTS 2500 Dual Display
 - . ASTRO Project 25 Trunking Software (Q574/Q575)
 - . Packet Data Interface (Q947)

NOTE: There is no specific option to order for the Advanced Messaging Solution on the subscribers as the functionality is included in the Packet Data option. Also, the text messaging functionality carries a per-radio charge on the server side of \$50 (one time license fee to access messaging services) per radio. When adding query the fee is \$125 per radio. For additional ordering guidelines of the AMS feature which includes the server and radio license fees, please visit -

<http://ecat.comm.mot.com/ecat/pricebooks/dup/MCCP.htm>

Models

Description	Nomenclature	APC	Price
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Options

Accessories

Enhancements

Description	Nomenclature	APC	Price
ZEPHYR PSM APX SYSTEM BUNDLE Motorola System bundle includes Software CD, gateway programming cable, configuration block, documentation. 1 Required per laptop	DDN1131	407	\$1,920.00
ZEPHYR CARRYING CASE	DDN1132	571	\$750.00
ZEPHYR PSM RSM BUNDLE XS-MED Motorola PSM bundle includes 1 BT BioHarness, 1 side strap (XS - Med), 1 remote speaker microphone	DDN1133	407	\$883.00
ZEPHYR PSM RSM BUNDLE MED-XL Motorola PSM bundle includes 1 BT BioHarness, 1 side strap (med ? XL), 1 remote speaker microphone	DDN1134	407	\$883.00
ZEPHYR BT REMOTE SPEAKER MIC (RSM)	DDN1135	571	\$405.00
NONIN BT FINGER BLOOD OXIMITRY SPO2 Contains CNet Bluetooth V2.0 USB Adaptor containing drivers for wireless Bluetooth BP & SPO2 devices.	DDN1136	571	\$735.00
ZEPHYR BIOSHIRT RESPONDER - XXL	DDN1137	407	\$186.00
ZEPHYR BIOSHIRT RESPONDER - XL	DDN1138	407	\$186.00
ZEPHYR BIOSHIRT RESPONDER - LARGE	DDN1139	407	\$186.00
ZEPHYR BIOSHIRT RESPONDER - MED	DDN1140	407	\$186.00
ZEPHYR RSM CONFIGURATION BLOCK	DDN1141	571	\$200.00
ZEPHYR BIOSHIRT RESPONDER - SMALL	DDN1146	407	\$186.00
ZEPHYR OMNISENSE SW CD & DOCUMENTS	DDN1149	407	\$1,500.00
ZEPHYR BLUETOOTH BIOMODULE	DDN1150	407	\$815.00
ZEPHYR 4 BAY CHARGER W USA PLUGPACK	DDN1151	571	\$220.00
ZEPHYR XTS RID	DDN1159	407	\$375.00
ZEPHYR PSM RID BUNDLE XS-MED Motorola PSM bundle includes 1 BT BioHarness, 1 side strap (XS - Med), 1 RID	DDN1160	571	\$908.00
ZEPHYR PSM RID BUNDLE MED-XL Motorola PSM bundle includes 1 BT BioHarness, 1 side strap (med ? XL), 1 RID	DDN1161	571	\$908.00

Adapter

Description	Nomenclature	APC	Price
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	BDN6676	742	\$52.50

For use with 1, 2 & 3 wire earpiece.

Antenna

Description	Nomenclature	APC	Price
ANTENNA, 136-174MHZ WIDEBAND DIPOLE	NAD6563	476	\$24.00
ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	NAD6566	476	\$16.50
ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	NAD6567	476	\$16.50
ANTENNA, 162-178MHZ WIDEBAND HELICAL	NAD6568	476	\$16.50

Battery

Description	Nomenclature	APC	Price
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	NNTN6263	453	\$137.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	NTN9857C	453	\$132.00
IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	NTN9858C	453	\$112.00
BATTERY STD IP54 LIION 2700M2900T	PMNN4454AR	453	\$85.00

Battery Maintenance Systems

Description	Nomenclature	APC	Price
NA FLEET MANAGEMENT LICENSE KEY	HKVN4036A	785	\$489.00
IMPRES BATTERY DATA READER	NNTN7392	785	\$250.00
Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO,TRBO & APX adapter included)			
FLEET MANAGEMENT CHRGR INTERFACE UNIT	NNTN7677A	291	\$80.00
Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.			

Belt Clip(s)

Description	Nomenclature	APC	Price
BELT CLIP 2 1/4"	HLN6853	271	\$11.50

Bluetooth, Mission Critical Wireless

Description	Nomenclature	APC	Price
XTS BLUETOOTH ADAPTER	RMN5104A	742	\$179.00

Cable(s)

Description	Nomenclature	APC	Price
CABLE- PROGRAMMING USB	RKN4105	261	\$237.00
DOES NOT require Smart Rib. This cable MUST be ordered or the RKN4106 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No RIB Box required.			
CABLE- PROGRAMMING, RS232	RKN4106	261	\$251.00
This cable MUST be ordered or the RKN4105 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No RIB Box required.			

Carrying Case(s)

Description	Nomenclature	APC	Price
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	NNTN4115	271	\$60.00
Includes swivel belt loop and t-strap. 3.0" Snap NiCad or NIMH.			
LEATHER CASE W/HIGH ACTIVITY 2.5" SWIVEL BELT LOOP	NNTN4116	271	\$60.00
Includes swivel belt loop and t-strap. 2.5" Snap NiCad or NIMH.			
LEATHER CASE W/SNAP BELT LOOP & T-STRAP	NNTN4117	271	\$60.00
Includes snap belt loop and t-strap. For NiCad or NIMH.			
LEATHER T-STRAP, PLAIN ACTION SNAP	NTN8383	476	\$10.50
LEATHER T-STRAP, HARD ACTION SNAP WITH ADDITIONAL STRENGTH AT SNAP	NTN8384	476	\$10.50

Charger

Description	Nomenclature	APC	Price
WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	NLN7967	476	\$21.00
Wall Mount Bracket for IMPRES Multi-Unit Charger			
CHARGER, 110 VOLT, US PLUG	NTN1667	476	\$100.00
VEHICULAR TRAVEL CHARGER	RLN4884	785	\$95.00
Utilizes the cigarette lighter adapter. INCLUDES: mounting bracket, custom coil cord, and charger. Travel charger is best used and compatible with 2" belt clip.			
SINGLE BASE ONLY	WPLN4114AR	785	\$160.00

Charger Line Cords

Description	Nomenclature	APC	Price
CHARGER, 220V LINE CORD	NTN7374	476	\$17.25
Can be used on any of the single or multi unit chargers, or power supplies, to provide for domestic or international operation.			

Commport Integrated Microphone/Receiver

Description	Nomenclature	APC	Price
COMMPORT WITH PALM PTT	NTN1624	115	\$419.00
CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.			
COMMPORT WITH PTT ON RADIO ADAPTER	NTN1625	115	\$419.00
CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.			
COMMPORT WITH SNAP-ON SIDE PTT	NTN1736	115	\$429.00

Earpieces

Description	Nomenclature	APC	Price
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE UL Approved	AARLN4885	742	\$25.00
EARBUD, MINI MICROPHONE AND PTT *MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM).	BDN6780	742	\$67.00
EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE) *HT1000, XTS 3000, requires BDN6676 (3.5mm adapter jack) that attaches to the radio. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM) *XTS 5000 & XTS 2500 requires BDN6676. Intrinsically Safe (FM). Assembled (receive only) with volume control & standard urethane earloop. *PR1500 - requires BDN6676 - Intrinsically Safe (FM)	BDN6781	742	\$27.00
D-SHELL RX-ONLY EARPIECE(3.5MM)	PMLN4620A	742	\$19.00
BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	PMLN5464	742	\$395.00
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	RLN6230A	742	\$32.00
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	RLN6241A	742	\$20.00
QUICK DISCONNECT ACOUSTIC TUBE	RLN6242A	742	\$7.90
EAR RCVR W/COIL CBL&3.5MM PLUG	WADN4190B	742	\$43.00

Headsets

Description	Nomenclature	APC	Price
HEADSET LIGHTWEIGHT Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)	NMN6245	785	\$149.00
MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM) Medium Weight Headset, Over the Head, with In-Line PTT - Noise Reduction Rating = 24dB	NMN6258	742	\$389.00
MED DUTY HEADSET,BEHIND-THE-HEAD, W/IN-LINE PTT-NRR= 24DB-INTRIN (FM) Medium Weight Headset, Behind the Head, with In-Line PTT - Noise Reduction Rating = 24dB	NMN6259	742	\$425.00
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.	RMN4049	742	\$225.00
RUGGED TEMPLE TRANSDUCER HEADSET Features a noise cancelling boom microphone and In-Line PTT	RMN5049	742	\$340.00

Microphones

Description	Nomenclature	APC	Price
SPKR MIC NON-SUBMSBL,GPS RSM HMN4084 has the Earjack. Not compatible with Man-Down Side connector (NTN7660) or Clamshell Battery Holder (Q495, Q496, NTN9177, NTN9183). When used with XTS 2500, requires B version board. INCLUDES GPS RSM User guide (6881098C03).	HMN4084	372	\$350.00
GPS R2 SMART/NON-SUBM RSM FM GPS R2.0 RSM, 3.5mm audio jack XTS2500 compatibility requires B tanapa version hardware and radio host R10.00.00 or later XTS5000 compatibility requires radio host cost R06.01.00 or later. FM compliant	HMN4112A	372	\$350.00
GPS R2 SMART/SUBM RSM FM GPS R2.0 RSM, Submersible XTS2500 compatibility requires B tanapa version hardware and radio host R10.00.00 or later XTS5000 compatibility requires radio host cost R06.01.00 or later. FM compliant	HMN4113A	372	\$350.00
RSM ADAPTER	NNTN4285A	205	\$5.00
REMOTE SPEAKER MICROPHONE, IP57	PMMN4038A	372	\$88.50
RSM W/MAN DOWN BUTTON	RMN5038	372	\$120.00

Multi Unit Chargers

Description	Nomenclature	APC	Price
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	WPLN4108 R	785	\$788.00
IMPRES MULTI CHARGER 230V UK 3 PIN PLUG NON DISPLAY	WPLN4110 R	785	\$788.00

Public Safety Microphone(s)

Description	Nomenclature	APC	Price
PSM STRAIGHT CABLE 30IN	RMN5072B	372	\$160.00
PSM STRAIGHT CABLE 24IN	RMN5073B	372	\$160.00
PSM STRAIGHT CABLE 18IN	RMN5074B	372	\$160.00

Surveillance

Description	Nomenclature	APC	Price
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE) 1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6664	742	\$40.00
COMPLETELY DISCREET EARPIECE KIT Wireless Earpiece, communicates to the radio through an inductive neckloop. The kit includes the wireless receiver, six spare batteries and five spare earguards	RLN4922	742	\$340.00

Customer Programming Software

Description	Nomenclature	APC	Price
SOFTWARE,CPS R20.00.00 ASTRO 25 PORTABLE	RVN4181AV	371	\$265.00

Data Compiled 16-Feb-2015 using DUP and all prices in USD

**ASTRO® Digital XTS 4000 Portable Series
UHF Range 1
Wide Area SmartZone® "Handie-Talkie™"
Radio
Trunked Radio Systems**

XTS 4000 Last Order Entry Date : June 1, 2014

XTS 4000 Last Scheduled Ship Date: September 30, 2014

[XTS 4000 Notification of Intent to Cancel Memo](#)

**** Alternative products include the APX Series **–
[APX3000](#)**

Special Note for United States - State & Local Markets only:

In accordance with FCC mandate, the XTS 2500 UHF R1 & UHF R2 products operating on Part 90 frequencies will be restricted to 12.5kHz or narrower operations on Jan. 1, 2013

******Please note that NEW version of Customer Programming Software (CPS) (Part # RVN4181/ RVN4186) is required for initial customer orders for XTS radios. ******

[Ship Card](#)

The XTS 4000 is the ideal solution in surveillance covert type operations where reliable secure communications is a must. Designed to resemble the appearance of today's consumer cellular communication devices, the XTS 4000 allows agents to blend right into the crowd. Our digital ASTRO 25 portable radio delivers high quality communication in a light and discrete package for those critical undercover situations.

The following limitation must be considered before ordering:

- **Significant Coverage Reduction:** The radio has a maximum power output of **2W** and utilizes a small covert antenna. These design elements result in limited coverage as compared to XTS 2500 or XTS 5000.
- **Range:** The best case condition is with antenna up and the radio been used in front of the face. In this mode the range is approximately **2 miles range** depending on the surrounding environment. With the antenna down and the radio on the belt, the range will be reduced.
- **Battery Capacity:** Standard Battery capacity is 630 mAh (LiIon only) and offers about 4 hours at 5/5/90 duty cycle.
- **XTS 4000 has all unique Accessories and Cables:** XTS 4000 is NOT compatible with XTS 5000/2500/1500 accessories. Customers will need to purchase new programming cables, chargers, and keyloading cables for use with XTS 4000.
- **Band Availability:** Only offered in VHF (3 antenna splits) and UHF R1 380- 470 MHz.

Hydra Coverage Simulation:

It is highly recommended that customers interested in the XTS 4000 also engage the System Deployment team who can utilize tools to simulate the coverage offered by the XTS 4000 radio. Hydra, an engineering application used to model performance of wireless communications systems, can assist the customer in understanding the impact of the reduced footprint of the XTS 4000 on a customer system. This information could be instrumental in helping the customer identify if the XTS 4000 is the right product for them and whether a PDR3500 or DVRS solution would make sense. ([Link to be added](#))

E3 Hold Notice:

Customer or sales must acknowledge that they are aware the transmit power is 2 watt max output, and the standard shipping Li-ion battery capacitance is 630 mAh which computes to 4 hrs of operating using a 5-5-90 duty cycle.

You may complete this acknowledgement form and submit to the product planner upon ordering to avoid delays. To view this document click [here](#)

Portable Repeater (optional)

The PDR 3500 is a single channel portable conventional repeater unit in a suitcase that allows range extension for conventional units. This solution can help with extending the conventional range of the XTS 4000 in low RF signal areas. For additional information, please refer to the PDR 3500 price pages located [here](#).

DVRS (optional)

The Digital Vehicular Repeater System (DVRS) is a single channel vehicle based on-scene repeater with system pass-through capabilities that allow system range extension for specially configured local radio units. This solution can help with extending the system or conventional range of the XTS 4000 in low RF signal areas. For additional information, please refer to the DVRS price pages located [here](#).

The links below go to the specific ECAT price pages for the different DVRS models. From those price pages information on specific model pricing and orderable options can be seen as well as ordering guide information.

- [Digital Vehicular Repeater VHF](#)
- [Digital Vehicular Repeater UHF](#)
- [Digital Vehicular Repeater 700 MHz](#)
- [Digital Vehicular Repeater 800 MHz](#)

Features

General Ordering Requirement and Information when ordering XTS 4000 Radio

All ASTRO Digital XTS4000 packaged models include the following hardware features:

- 2 Li Ion Batteries (NNTN6944)
- Plastic Holster
- Encryption Module equipped with DES-XL/DES-OFB/AES/DVP-XL and OTAR
- 1 Antenna 380-470 MHz
- User Guide/CD Manual
- Quick Starter Guide

Ordering Instruction

NOTE: XTS 4000 is offered in two different Digital packages (Conventional or Conventional & Trunking). Additional options are available, but not required.

Conventional Package (H44) includes the following:

- Digital ASTRO Conventional, PTT- ID, Remote Monitor One Touch, Repeater Access, Conventional Vote Scan, and Conventional Radio Cloning

Conventional & Trunking Package (H45) includes the following:

- 3600 Digital SmartZone, ASTRO 25 Trunking, PTT-ID, Remote Monitor, One Touch, Repeater Access, Omnilink
- All of the features included in the Conventional Package (H44)

NOTE: Please be advised of the Relative Radiated Received Sensitivity:

Self-Quieting Frequency List (within +/-12.5kHz)

~ 381.5400	~ 413.3350	~ 437.1800	~ 453.0800	~468.9750
~ 389.4900	~ 417.7650	~ 437.2900	~ 457.4875	
~ 393.1900	~ 421.2850	~ 442.3400	~ 461.0250	
~ 397.4400	~ 429.2100	~ 445.1300	~ 466.2400	
~ 405.3850	~ 429.2300	~ 446.7188	~ 466.9150	

ASTRO Advanced Messaging Solution (AMS)

The ASTRO 25 Advanced Messaging Solutions is the latest messaging platform from Motorola Solutions and will replace ASTRO Text Messaging Service (TMS). As a complete end-to-end solution it leverages the core assets of ASTRO 25 IV&D/CID networks, ASTRO 25 radios, Integrated Command Center applications and Unified Network Services. The application allows responders to send/receive messages and run database queries from ASTRO 25 data enabled portable radios, extending real time information access to the field so dispatchers and first responders can be more efficient and achieve safer outcomes.

Provides functional parity with TMS and leverages the PremierOne messaging services platform, offering multiple configurations to enhance and extend core messaging functionality that can include queries and dispatch notifications. Based upon the configuration chosen, ASTRO 25 Advanced Messaging Solution extends Computer Aided Dispatch (CAD) information beyond the vehicle to select ASTRO 25 Portable radios.

Many Public Safety agencies have experienced the benefits of messaging and sharing important information to/from the communication center (dispatch) and vehicles equipped with MDT's. With ASTRO 25 Advanced Messaging Solution we are extending that capability to responders when Outside the Vehicle.

ASTRO Advanced Messaging Solution will be available on XTS 4000 Portable radios. Advanced Messaging is NOT supported on XTS 4000 Top Display Portable radios.

Ordering ASTRO Advanced Messaging Solution for XTS 4000 Portable Requires:

- XTS 4000 Dual Display
- ASTRO Digital CAI Operation (Q806)
- P25 Conventional (H44)
- Packet Data Interface (Q947)
- OR**
- XTS 4000 Dual Display
- ASTRO Digital CAI Operation (Q806)
- ASTRO Project 25 Trunking Software (H45)
- Packet Data Interface (Q947)

NOTE: There is no specific option to order for the Advanced Messaging Solution on the subscribers as the functionality is included in the Packet Data option. Also, the text messaging functionality carries a per-radio charge on the server side of \$50 (one time license fee to access messaging services) per radio. When adding query the fee is \$125 per radio. For additional ordering guidelines of the AMS feature which includes the server and radio license fees, please visit -

<http://ecat.comm.mot.com/ecat/pricebooks/dup/MCCP.htm>

Models			
Description	Nomenclature	APC	Price
Options			
Accessories			
Antenna			
Description	Nomenclature	APC	Price
ANTENNA 380-470MHZ	NAE6552	654	\$25.00
ANTENNA 380 - 470 MHZ	NAE6553A	654	\$20.00
Battery			
Description	Nomenclature	APC	Price
XTS4000 BATT LI_ION 630MAH EACH (NNTN6944)	NNTN6944AR	453	\$90.00
Charger			
Description	Nomenclature	APC	Price
XTS4000 CHARGING CRADLE ADAPTER	NNTN6937A	785	\$42.00
XTS4000 AC CHARGER	NNTN6938A	785	\$105.00
XTS4000 DC VEHICULAR CHARGER	NNTN6939A	785	\$105.00
Power Supply			
Description	Nomenclature	APC	Price
XTS4000 INSERT FOR IMPRES, 5000 SINGLE UNIT CHARGER	PMLN5429A	785	\$25.00
UNDEFINED			
Description	Nomenclature	APC	Price

XTS4000 - 3 WIRE SURV. KIT W/ QUICK DISCONNECT

RLN6476A

742

\$150.00

Miscellaneous**Description**

RS232 XTS4000 PROGRAMMING CABLE

Nomenclature

NKN1027A

APC

654

Price

\$251.00

Data Compiled 16-Feb-2015 using DUP and all prices in USD

ASTRO® Digital XTS 4000 Portable Series
VHF
Wide Area SmartZone® "Handie-Talkie™" Radio
Trunked Radio Systems

XTS 4000 Last Order Entry Date : June 1, 2014

XTS 4000 Last Scheduled Ship Date: September 30, 2014

[XTS 4000 Notification of Intent to Cancel Memo](#)

**** Alternative products include the APX Series **–
[APX3000](#)**

Special Note for United States - State & Local Markets only:

In accordance with FCC mandate, the XTS 2500 VHF products operating on Part 90 frequencies will be restricted to 12.5kHz or narrower operations on Jan. 1, 2013

****Please note that NEW version of Customer Programming Software (CPS) (Part # RVN4181/ RVN4186) is required for initial customer orders for XTS radios. ****

[Ship Card](#)

The XTS 4000 is the ideal solution in surveillance covert type operations where reliable secure communications is a must. Designed to resemble the appearance of today's consumer cellular communication devices, the XTS 4000 allows agents to blend right into the crowd. Our digital ASTRO 25 portable radio delivers high quality communication in a light and discrete package for those critical undercover situations.

The following limitation must be considered before ordering:

- **Significant Coverage Reduction:** The radio has a maximum power output of **2W** and utilizes a small covert antenna. These design elements result in limited coverage as compared to XTS 2500 or XTS 5000.
- **Range:** The best case condition is with antenna up and the radio been used in front of the face. In this mode the range is approximately **1 miles range** depending on the surrounding environment. With the antenna down and the radio on the belt, the range will be reduced.
- **Battery Capacity:** Standard Battery capacity is 630 mAh (LiIon only) and offers about 4 hours at 5/5/90 duty cycle.
- **XTS 4000 has all unique Accessories and Cables:** XTS 4000 is NOT compatible with XTS 5000/2500/1500 accessories. Customers will need to purchase new programming cables, chargers, and keyloading cables for use with XTS 4000.
- **Band Availability:** Only offered in VHF (3 antenna splits) and UHF R1 380- 470 MHz.

Hydra Coverage Simulation:

It is highly recommended that customers interested in the XTS 4000 also engage the System Deployment team who can utilize tools to simulate the coverage offered by the XTS 4000 radio. Hydra, an engineering application used to model performance of wireless communications systems, can assist the customer in understanding the impact of the reduced footprint of the XTS 4000 on a customer system. This information could be instrumental in helping the customer identify if the XTS 4000 is the right product for them and whether a PDR3500 or DVRS solution would make sense. ([Link to be added](#))

E3 Hold Notice:

Customer or sales must acknowledge that they are aware the transmit power is 2 watt max output, and the standard shipping Li-ion battery

capacitance is 630 mAh which computes to 4 hrs of operating using a 5-5-90 duty cycle.

You may complete this acknowledgement form and submit to the product planner upon ordering to avoid delays. To view this document click [here](#)

Portable Repeater (optional)

The PDR 3500 is a single channel portable conventional repeater unit in a suitcase that allows range extension for conventional units. This solution can help with extending the conventional range of the XTS 4000 in low RF signal areas. For additional information, please refer to the PDR 3500 price pages located [here](#).

DVRS (optional)

The Digital Vehicular Repeater System (DVRS) is a single channel vehicle based on-scene repeater with system pass-through capabilities that allow system range extension for specially configured local radio units. This solution can help with extending the system or conventional range of the XTS 4000 in low RF signal areas. For additional information, please refer to the DVRS price pages located [here](#).

The links below go to the specific ECAT price pages for the different DVRS models. From those price pages information on specific model pricing and orderable options can be seen as well as ordering guide information.

- [Digital Vehicular Repeater VHF](#)
- [Digital Vehicular Repeater UHF](#)
- [Digital Vehicular Repeater 700 MHz](#)
- [Digital Vehicular Repeater 800 MHz](#)
-

Features

General Ordering Requirement and Information when ordering XTS 4000

All ASTRO Digital XTS4000 packaged models include the following hardware features:

- 2 Li Ion Batteries (NNTN6944)
- 1 Antenna 164-174MHz. If this antenna is not desired you may choose one from the antenna section below.
- Plastic Holster
- Encryption Module equipped with DES-XL/DES-OFB/AES/DVP-XL and OTAR
- User Guide/CD Manual
- Quick Starter Guide

Ordering Instruction

NOTE: XTS 4000 is offered in two different Digital packages (Conventional or Conventional & Trunking). Additional options are available, but not required.

Conventional Package (H44) includes the following:

- Digital ASTRO Conventional, PTT-ID, Remote Monitor One Touch, Repeater Access, Conventional Vote Scan, and Conventional Radio Cloning

Conventional & Trunking Package (H45) includes the following:

- 3600 Digital SmartZone, ASTRO 25 Trunking, PTT-ID, Remote Monitor, One Touch, Repeater Access, Omnilink
- All of the features included in the Conventional Package (H44)

NOTE: Please be advised of the Relative Radiated Received Sensitivity:

Self-Quieting Frequency List (within +/-12.5kHz)

~ 136.6730	~ 165.9000
~ 143.0680	~ 167.6450
~ 147.4470	~ 170.4000
~ 153.6000	~ 172.0230
~ 158.2230	~ 172.6950
~ 161.2475	

ASTRO Advanced Messaging Solution (AMS)

The ASTRO 25 Advanced Messaging Solutions is the latest messaging platform from Motorola Solutions and will replace ASTRO Text Messaging Service (TMS). As a complete end-to-end solution it leverages the core assets of ASTRO 25 IV&D/CID networks, ASTRO 25 radios, Integrated Command Center applications and Unified Network Services. The application allows responders to send/receive messages and run database queries from ASTRO 25 data enabled portable radios, extending real time information access to the field so dispatchers and first responders can be more efficient and achieve safer outcomes.

Provides functional parity with TMS and leverages the PremierOne messaging services platform, offering multiple configurations to enhance and extend core messaging functionality that can include queries and dispatch notifications. Based upon the configuration chosen, ASTRO 25 Advanced Messaging Solution extends Computer Aided Dispatch (CAD) information beyond the vehicle to select ASTRO 25 Portable radios.

Many Public Safety agencies have experienced the benefits of messaging and sharing important information to/from the communication center (dispatch) and vehicles equipped with MDT's. With ASTRO 25 Advanced Messaging Solution we are extending that capability to responders when Outside the Vehicle.

ASTRO Advanced Messaging Solution will be available on XTS 4000 Portable radios. Advanced Messaging is NOT supported on XTS 4000 Top Display Portable radios.

Ordering ASTRO Advanced Messaging Solution for XTS 4000 Portable Requires:

- XTS 4000 Dual Display
- ASTRO Digital CAI Operation (Q806)
- P25 Conventional (H44)
- Packet Data Interface (Q947)
- OR**
- XTS 4000 Dual Display
- ASTRO Digital CAI Operation (Q806)
- ASTRO Project 25 Trunking Software (H45)
- Packet Data Interface (Q947)

NOTE: There is no specific option to order for the Advanced Messaging Solution on the subscribers as the functionality is included in the Packet Data option. Also, the text messaging functionality carries a per-radio charge on the server side of \$50 (one time license fee to access messaging services) per radio. When adding query the fee is \$125 per radio. For additional ordering guidelines of the AMS feature which includes the server and radio license fees, please visit -

<http://ecat.comm.mot.com/ecat/pricebooks/dup/MCCP.htm>

Models			
Description	Nomenclature	APC	Price
Options			
Accessories			
Antenna			
Description	Nomenclature	APC	Price
ANTENNA 145 - 166 MHZ	NAD6581A	654	\$29.00
ANTENNA 136 - 151 MHZ	NAD6582A	654	\$32.00
ANTENNA 162.0 - 174.0 MHZ	NAD6583A	654	\$29.00
Battery			
Description	Nomenclature	APC	Price
XTS4000 BATT LI_ION 630MAH EACH (NNTN6944)	NNTN6944AR	453	\$90.00
Charger			
Description	Nomenclature	APC	Price
XTS4000 CHARGING CRADLE ADAPTER	NNTN6937A	785	\$42.00
XTS4000 AC CHARGER	NNTN6938A	785	\$105.00
XTS4000 DC VEHICULAR CHARGER	NNTN6939A	785	\$105.00
Power Supply			
Description	Nomenclature	APC	Price
XTS4000 INSERT FOR IMPRES, 5000 SINGLE UNIT CHARGER	PMLN5429A	785	\$25.00

UNDEFINED**Description**

XTS4000 - 3 WIRE SURV. KIT W/ QUICK DISCONNECT

Nomenclature

RLN6476A

APC

742

Price

\$150.00

Miscellaneous**Description**RS232 XTS4000 PROGRAMMING CABLE
USB PROGRAMMING CABLE**Nomenclature**NKN1027A
NKN1029A**APC**654
654**Price**\$251.00
\$380.00

Data Compiled 16-Feb-2015 using DUP and all prices in USD

XTS 5000 Last Order Entry Date : October 31, 2013

XTS 5000 Last Scheduled Ship Date: November 30, 2013

XTS 5000 Notification of Intent to Cancel Memo

**** Alternative products include the APX Series **--
APX7000 / APX7000XE / APX6000 / APX6000XE**

**ASTRO® Digital XTS 5000™ Portable Series
UHF RANGE 1 / TYPE 1 Encryption
SMARTNET® "Handie-Talkie™" Radio
Conventional/ Secure/ Trunked Radio Systems**



Special Note for United States - State & Local Markets only:

In accordance with FCC mandate, the XTS 5000 UHF R1 & UHF R2 products operating on Part 90 frequencies will be restricted to 12.5kHz or narrower operations on Jan. 1, 2013

[Ship Card](#)

Features

All ASTRO Digital XTS 5000 packaged models include the following hardware features:

- 3 Programmable Side Buttons
- Orange Emergency Button
- Illuminated 16 Position Mode Rotary Select Switch
- Angled On/Off Volume
- Low Battery Alert Tone
- Antenna (Band split and Type Dependent on Band Option)
- Smart Battery Technology
- Noise Reduction Software
- 1 Top Mounted Programmable Two Position Concentric Switch
- 1 Top Mounted Programmable Three Position Toggle Switch
- Weather Sealed Universal Connector
- Bi-Color LED Indicator
- Nickel Metal Hydride Battery
- Detachable Belt Clip
- ASTRO 25
- Audio Gain Control

ASTRO Digital XTS 5000 Model III also include:

- Full Keypad for Private Call
- 6 Lines Alphanumeric Display
- Date and Time Stamp
- Keypad Tone Mute
- Large Navigational Keypad
- Real Time Clock

All ASTRO Digital XTS 5000 Portables are part of the FLASHport® program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent upon remaining within the same RF deck.)

Physiological Monitoring Solution

Physiological Monitoring is now available on the ASTRO 25 XTS5000 and XTS2500 portable radios. The Zephyr BioHarness™ BT couples the pioneering Smart Fabric sensor technology of the comfortable and unobtrusive BioHarness™ garment with the power and ubiquity of Bluetooth®. BioHarness™ BT enables the capture and transmission of comprehensive physiological data on the wearer exclusively via MOTOROLA ASTRO RADIOS – enabling genuine remote monitoring of human performance and condition in the real world.

The BioHarness™ BT can be used in a diverse range of areas including sports, defense, first responder and healthcare. Its professional-grade BioHarness™ system monitors conditions such as heat state, dehydration or injury by measuring vital signs including heart rate, breathing rate, skin temperature, posture and activity. Using the subject's voice radio, the BioHarness communicates to monitoring software designed to give real-time alerts and post-event analysis.

BioHarness™ BT can be worn in virtually any environment – from combat situations to the training field. It maintains performance under extreme activity. Offering fast, accurate collection and analysis of high-quality, in-depth data, BioHarness™ BT is the definitive product for remote physiological monitoring in all conditions.

[Zephyr Physiological Monitoring Ordering Guide](#)

General Information

The ASTRO Digital XTS 5000 Portable Line offers three different radio hardware models:

Hardware Model	Modes	Alphanumeric Display	Keypad	Navigation Pad
		Lines/Characters		
		Per Line		
ASTRO XTS 5000 Model I	48	None	None	No
ASTRO XTS 5000 Model II	1000	6/12/front mount	3 x 2	Yes
ASTRO XTS 5000 Model III	1000	6/12/front mount	3 x 6	Yes

Operating Modes

ASTRO Digital XTS 5000 Radio Models are capable of operating in three different voice communication modes:

- Normal Analog (clear voice)
- 3.6KB ASTRO Digital (both clear and coded voice)
- 9.6KB ASTRO 25 Digital (both clear and coded voice)

The mode of operation is programmed on a channel-by-channel basis. With the coded/clear switch set to the clear mode, the ASTRO Digital XTS 5000 radio is capable of transmitting clear analog voice or clear (unencrypted) ASTRO digital voice, depending on the channel programming. With the coded/clear switch set to the coded mode, the ASTRO Digital XTS 5000 radio will transmit ASTRO Digital Encryption depending on the channel programming. ASTRO digital encryption provides communications security. ASTRO Digital Encryption (operating in encrypted mode while also operating in the 3.6KB or 9.6 KB ASTRO mode) is capable of XL type encryptions; ASTRO Digital Encryption Does not operate with non-XL encryptions.

An Encryption Option is not required for either clear analog operation or clear ASTRO digital operation. Encryption can be ordered with the ASTRO Digital XTS 5000 radio either as a factory installed option or separate from the radio for later field installation. ASTRO Digital XTS 5000 radio functions include selected ASTRO digital signaling and digital speech coding.

Please note that the XTS5000 does NOT support FRED.

CHANNEL SPACING

There are no maximum frequency separation conditions that must be adhered to on the ASTRO Digital XTS 5000 Portable Radio Series. Separation of frequencies can be as wide as the allowable sub-band per radio model with no degradation of any performance specifications. If an incorrect antenna is used, degraded performance may be experienced.

FLASHport AFTERMARKET UPGRADES

The ASTRO Digital XTS 5000 Portable Series Radios are part of the FLASHport Program. This means that ASTRO Digital XTS 5000 hardware models can be loaded with different software packages that provide the features and functionalities that your customers require. Three different hardware models are available in each band split.

System Enhancement Options can be loaded at the time of radio purchase or at a later date through the use of software field upgrades (a RS232 cable or USB cable are required for all software upgrades.) The ASTRO Digital XTS 5000 portable can be upgraded electronically in the field with new features in the current system or to new systems operation (contingent upon remaining within the same RF sub-band) by ordering upgrade kits.

Ordering Requirements

Ordering procedure is as follows...

1 H18UCH9PW N ASTRO XTS 5000 Portable

1A Q806 Digital Operation

1B H38 SmartZone® Operation

1C ETC.

1. Order the ASTRO Digital XTS 5000 Portable Series as the main line item (H18UCH9PW7_N).
2. Each hardware model MUST be ordered with one Operating Mode. One Operating Mode for each radio unit ordered. Choose between Analog or Digital Operation.
3. Each Hardware model MUST be ordered with one System Software Package. One System Software Package for each radio unit ordered.
 - The matrix below list available radio wide, conventional features, and standard trunking features for SMARTNET (H37) and SmartZone (H38) System Packages.
 - The SmartZone features listed in the second matrix are available in the SmartZone (H38) package ONLY.
4. Select ANY desired System Enhancement Options
 - System Enhancement Options can be loaded at the time of radio purchase or at a later date through the use of software field upgrades (a RS232 cable or USB cable are required for all software upgrades.)

COMMON SOFTWARE FEATURES SUPPORTED BY			
H37 "SMARTNET"/H38 "SmartZone"			
	"Analog Operation"(Q241)	"ASTRO Digital"(Q806)	"ASTRO Digital"(H38/Q806/Q361)
	Non-Project 25 (3600 Baud)	Non-Project 25 (3600 Baud)	Project 25 (9600 Baud)
RADIO WIDE FEATURES			
<i>Maximum Modes</i>			
ASTRO Digital XTS 5000 Model I	16/48	16/48	16/48
ASTRO Digital XTS 5000 Model II & III	1000	1000	1000
Analog and Digital Operation	-	Yes	Yes
12.5/20/25 KHz Programmable Channels	Yes	Yes	Yes
Secure Capable	No	Yes	Yes
One Touch Operation	Yes	Yes	Yes
Real Time Clock	Yes	Yes	Yes
Surveillance Mode	Yes	Yes	Yes
Keypad Lock	Yes	Yes	Yes
Radio Lock	Yes	Yes	Yes
Smart Battery	Yes	Yes	Yes
Radio Wide Transmit Inhibit	Yes	Yes	Yes
Time Out Timer	Yes	Yes	Yes
FLASHport	Yes	Yes	Yes
ANALOG CONVENTIONAL FEATURES			
Conventional Features are additional radio wide features beyond those specified above.			
CSQ/PL/DPL	Yes	Yes	Yes
Dual Priority Channel Scan	Yes	Yes	Yes
Adaptive Power Control	Yes	Yes	Yes
Repeater/Talkaround Operation	Yes	Yes	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes	Yes	Yes
Smart PTT	Yes	Yes	Yes
Monitor	Yes	Yes	Yes
DTMF Tone Generation	Yes	Yes	Yes
DIGITAL CONVENTIONAL SIGNALING FEATURES			
These features are APCO Project 25 Conventional Interoperable Features when used in the ASTRO Digital CAI Mode (Q806).			

Unaddressed Voice Call	-	Yes	Yes
Talk Group Call	-	Yes	Yes
Group Call Alert™	-	Yes	Yes
Talk Group Identification (TGID)	-	Yes	Yes
Selective Call (Individual Voice Call)	-	Yes	Yes
Selective Call Decode (Individual Voice Call)	-	Yes	Yes
PTT ID (Individual Identification)	-	Yes	Yes
Call Alert Encode/Decode	-	Yes	Yes
Emergency Alarm w/Channel Revert & Ack.	-	Yes	Yes
Telephone Interconnect	-	Yes	Yes
Unlimited (Model III Only)	-	Future	Future
Selective Radio Inhibit	-	Yes	Yes
Radio Check	-	Yes	Yes
Status/Message	-	Yes	Yes
Trunking Type II Only Features			
Maximum Number of Trunked Systems-20	Yes	Yes	Yes
Talkgroup Calls	No	Yes	Yes
PTT ID (H14 option required)	Yes	Yes	Yes
Call Alert Encode/Decode			Yes
Dual Mode Scan	Yes	Yes	Yes
Failsoft by Talkgroup	Yes	Yes	Yes
Telephone Interconnect Encode/Decode	Yes	Yes	Yes
System Wide Call (Receive Only)	Yes	Yes	Yes
Selective Radio Inhibit	Yes	Yes	Yes
Priority Monitor Scan	Yes	Yes	Yes
Dynamic Regrouping	Yes	Yes	Yes
Status/Message	Yes	Yes	Status Only
Private/Enhanced Conversation Encode/Decode	Yes	Yes	Yes
Remote Monitor/Radio Trace	Yes	Yes	No
Reprogram Request	Future	Future	Future

SOFTWARE FEATURES SUPPORTED BY			
H38 "SmartZone"			
	"Analog Operation" (Q241)	"ASTRO Digital" (Q806)	"ASTRO Digital" (H37/Q806/Q361)
		Non-Project 25 (3600 Baud)	Project 25 (9600 Baud)
Trunking Type II Only Features			
Voice on Control	Future	Future	Future
SmartZone Automatic Site Registration	Yes	Yes	Yes
SmartZone RSSI Operation	Yes	Yes	Yes
SmartZone Preferred Site	Yes	Yes	Yes
SmartZone Forced Site Search	Yes	Yes	Yes
SmartZone Site Lock/Unlock	Yes	Yes	Yes
SmartZone Adjacent Control Channel OSW	Yes	Yes	Yes
Emergency Alarm Call Receive Indication	Yes	Yes	Yes

LIMITED MDC FEATURES	
Offered in 6.3	
MDC PTT ID ENCODE/DECODE	YES
MDC Selective Radio Inhibit	Decode ONLY
MDC Call Alert	Yes
MDC Radio Check	Decode ONLY
MDC Voice Selective Call	Yes
MDC Remote Monitor	Decode ONLY
MDC Call Lists (Call Alert / Select Call)	Yes
MDC Emergency	Yes

CONVENTIONAL FACTORY PROGRAMMING

ASTRO Digital XTS 5000 portables ship without customer specific factory programming unless a programming options is specified.

FREQUENCY AND SQUELCH CODES

Although some models of the ASTRO Digital XTS 5000 are capable of 512 channels, the factory can accommodate the programming of only 128 continuous channels in any one radio. If the programming of more than 128 continuous channels is desired, field programming software must be used. **Programming of the following frequencies is not allowed: 386.4000, 396.0000, 403.2000, 414.0000, 420.0000, 432.0000, 436.8000, 450.0000, 453.6000 and 468.0000.**

H477 ADD: Frequency & Squelch Data No Charge

ZONED OPERATION

This option converts MODE-ONLY ASTRO Digital XTS 5000 portables to Zone Operation radios. A maximum of 16 RX and TX pairs can be placed into a zone. There is a maximum of three zones (48 modes) on the "I" Model, with zone operation programmed to the programmable top mounted two-position concentric switch. There is a maximum of 16 zones (512 modes) on the "II" and "III" models, and the zones will be programmed to be selected from the keypad. The factory can only accommodate the programming of only 128 continuous channels consisting of any combination of zones and channels and minimum of 32 channels with two zones on the "II" models. **When you ordering H477, H371 must be ordered.**

PROJECT 25 ENCRYPTION

When ordering any of the Encryption Algorithm:

- **Must** order the Encryption UCM Hardware (Q159)
 - The DES-OFB and AES encryptions offered are compliant with digital Project 25 standards and does not support analog encryption operation.
 - **Requires** the ASTRO Digital CAI (Q806) to operate the DES-OFB and AES encryption.
- If ordering a Dual Encryption:
 - The non-OFB encryption (XL versions) can be operated in either analog , or CAI digital mode, but will not be Project 25 compliant.
 - **Requires** the Multikey (H869).
- When used in CAI mode, the non-OFB Encryption will not be Project 25 compliant.
 - Encryption UCM Hardware (Q159) module may be ordered without an Encryption Algorithm for later upgrade in the field.

FIELD INSTALLED PROJECT 25 ENCRYPTION

The DES-OFB and AES encryptions offered are compliant with Project 25 standards. Operation of DES-OFB and/or AES encryption requires the ASTRO Digital CAI (Q806) option. Radios can be upgraded via FLASHport to CAI operation.

- If ordering a Dual Encryption:
 - The non-OFB encryption can be operated in analog or CAI mode (only XL versions operate in either digital mode).
 - **Requires** the Multikey (H869).
- When used in the CAI mode, the non-OFB encryption will not be Project 25 compliant.

FIPS 140-2 Compliance

Encryption Modules equipped with AES are FIPS 140-2 compliant. Further information regarding FIPS 140-2 certification may be found using the following links:

[FIPS 140-2 Crypto Module Validation Program \(CMVP\)](#)

[NIST Cryptographic Module Validation Lists](#)

FM INFORMATION

The XTS 5000 portable radio when properly equipped with options Q393AN and Q393RUGDAR are Factory Mutual (FM/CSA) Approved as intrinsically safe for use in Class I, II, III, Division 1, Group C, D, E, F, and G and Nonincendive Class I, Division 2, Group A, B, C and D, when ordered without encryption modules.

The XTS 5000 portables equipped with UCM encryption modules and options Q393AP and Q393RUGDAQ are FM/CSA Approved as Intrinsically Safe for use in Class I, II, III, Division 1, Group D, F, G and Nonincendive for use in Class I, Div 2, Group A, B, C, D only.

XTS 5000 FM/CSA approved portable radio models installed with Type 1 encryption module (Q374 or Q400), are intrinsically safe for use in the Nonincendive, Class I, Division 2, Groups A, B, C, D, when used with Motorola FM/CSA approved battery options Q393AV and Q393RUGDAW or H223CP and H223RUGDCW. Type 1 is not offered on either the 700/800 or UHF R2 bands.

ASTRO Text Messaging Service

ASTRO Text Messaging Service will be available on ASTRO 25 XTS 5000, XTS 2500 Portable radios and ASTRO 25 XTL 5000, XTL 2500 Mobile radios. Text Messaging Service (TMS) allows subscriber users to send and receive text messages to other subscribers or dispatch

operators. Users can select messages and addresses from a predefined list or enter freeform text messages and addresses via the keypad. Text Messaging Service is available on ASTRO Trunked IV&D Systems and Subscribers. Subscribers must have version R09.00.00 or later of both Customer Programming Software (CPS) and Radio software .

For full Text Messaging functionality, including freeform text messaging and addressing, must order Model III XTS5000 portables. Model II versions support Limited Text Messaging functionality such as selecting predefined messages or addresses from a list programmed in the radio. Text messaging service is NOT supported on Model I Portables.

Ordering requirements for XTS 5000 Portable:

- Requires Model II or Model III XTS 5000
- ASTRO Digital CAI Operation (G806)
- SmartZone Operation (H38)
- ASTRO Project 25 Trunking Software (Q361)
- Packet Data Interface (Q947)

NOTE: There is no specific option to order for the Text Messaging Service on the subscribers as the functionality is included in the Packet Data option.

Outdoor Personnel Location Global Positioning Satellite (GPS) Feature

The personnel outdoor location tracking GPS feature enables a dispatcher the ability to locate on-foot patrols and out of the vehicle officers who are involved in life threatening situations. The radio user's GPS position information is sent over the ASTRO 25 Integrated Voice & Data (IV&D) network and is delivered to the dispatch operator using a third party mapping display application at the dispatch center (*Mapping Application is not yet available through Motorola at this time, however an Application Developers Tool Kit is available for 3rd party vendors to use to modify existing applications. See link below for more details.*)

This capability is now available on ASTRO 25 Conventional IV&D Systems and ASTRO 25 Trunking IV&D Systems on XTS 5000 Models I, II, III and Ruggedized with appropriate radio software (see below).

Required equipment for operating in ASTRO 25 Conventional IV&D and ASTRO 25 Trunking IV&D Systems is as follows:

	ASTRO 25 Conventional IV&D	ASTRO 25 Trunking
Radio Software	Version R09.00.00 or later	Version R09.00.00 or later
Customer Programming Software (CPS)	Version R09.00.00 or later (RVN4181)	Version R09.00.00 or later
ASTRO CAI operation	Q806	Q806
System Enhancement Software	H35 (or H37, H38 in Conventional Mode)	H38
ASTRO Project 25 Trunking Software		Q361
GPS Remote Speaker Microphone/GPS Remote Speaker Microphone with Earjack	HMN4080 or HMN4084	HMN4080 or HMN4084

For fielded XTS 5000 Portables that are already Conventional IMBE Digital Enabled or Trunking IMBE Digital Enabled, see FLASHport upgrade Price Pages to order a software refresh to get the GPS enabled software.

During normal operation the radio's battery capacity will be reduced by 10% to 16% based on 1 location update per minute.

NOT COMPATIBLE with Man -Down Side Connector (NTN7660), Clamshell Battery Holder (Q495, Q496, NTN9177, NTN9183).

For further information refer regarding System Requirements, go to the Location Solutions Price Page at: <http://ecat.comm.mot.com/ecat/pricebooks/dup/ALOCATION.htm>

NOTE:
The GPS technology uses radio signals from earth orbiting satellites, to establish the location co-ordinates, maximizing your view of clear, unobstructed sky is essential for optimum performance. Where adequate signals from multiple satellites are not available, (usually because you cannot establish a view of a wide area of the sky), the GPS feature of your GPS RSM WILL NOT WORK. Such situations include but are not limited to:

- In underground locations
- Inside of buildings, trains, or other covered vehicles
- Under any other metal or concrete roof or structure
- Between tall buildings or under dense tree-cover

PUBLIC SAFETY SPEAKER MICROPHONES (PSM)

The RF switch has been removed from the XTS Radio to provide cost savings on the model. Therefore, the EXTERNAL RF SWITCH must be ORDERED and then ATTACHED to the radio in order for the PSM to operate. A wrench tool must be used to place the RF switch. These kits must be ordered separately. The RF switch and microphones are FM approved.

SELF-QUIETING SPURS

- 16.8 MHz is radio's main Reference Oscillator used on RF and Vocon board as main frequency source. This frequency is generously available on the Vocon board to the Patriot and Flipper ICs, and unfortunately a low level emitted frequency being picked up by the radio's receiver.
- 1.2, 1.5, 1.8 Hz are Abacus 3 frame sync clocks (programmable) for RX base band data transfer to Patriot. The values shown here

are where the 3 frequency multiples intersect.

Self-Quieting Spurs

Frequency (MHz)	Source
386.4000	multiple of 16.8 MHz
396.0000	multiple of 1.2, 1.5, and 1.8 MHz
396.0000	multiple of 1.2, 1.5, and 1.8 MHz
403.2000	multiple of 16.8 MHz
414.0000	multiple of 1.2, 1.5, and 1.8 MHz
420.0000	multiple of 16.8 MHz
432.0000	multiple of 1.2, 1.5, and 1.8 MHz
436.8000	multiple of 16.8 MHz
450.0000	multiple of 1.2, 1.5, and 1.8 MHz
453.6000	multiple of 16.8 MHz
468.0000	multiple of 1.2, 1.5, and 1.8 MHz

FCC Information

FCC IDENTIFIER: AZ489FT4855

Name of Grantee: Motorola Solutions, Inc.

Equipment Class: Licensed Non-Broadcast Transmitter Held to Face

Notes: ASTRO XTS5000 UHF R1

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance
BE	80, 90, 90.210	380.0 - 470.0	5.7	2.0 PM
BE	80, 90, 90.210	380.0 - 470.0	5.7	2.0 PM
BE	80, 90, 90.210	380.0 - 470.0	5.7	2.0 PM
BE	80, 90, 90.210	380.0 - 470.0	5.7	2.0 PM
BE	80, 90, 90.210	380.0 - 470.0	5.7	2.0 PM

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

[XTS 5000 Catalog Sheet](#)

[XTS Vehicular Adapter \(XTVA\)](#)

Here is a link for the [XTS 5000 Notation](#).

ASTRO Advanced Messaging Solution (AMS)

The ASTRO 25 Advanced Messaging Solutions is the latest messaging platform from Motorola Solutions and will replace ASTRO Text Messaging Service (TMS). As a complete end-to-end solution it leverages the core assets of ASTRO 25 IV&D/CID networks, ASTRO 25 radios, Integrated Command Center applications and Unified Network Services. The application allows responders to send/receive messages and run database queries from ASTRO 25 data enabled portable radios, extending real time information access to the field so dispatchers and first responders can be more efficient and achieve safer outcomes.

Provides functional parity with TMS and leverages the PremierOne messaging services platform, offering multiple configurations to enhance and extend core messaging functionality that can include queries and dispatch notifications. Based upon the configuration chosen, ASTRO 25 Advanced Messaging Solution extends Computer Aided Dispatch (CAD) information beyond the vehicle to select ASTRO 25 Portable radios.

Many Public Safety agencies have experienced the benefits of messaging and sharing important information to/from the communication center (dispatch) and vehicles equipped with MDT's. With ASTRO 25 Advanced Messaging Solution we are extending that capability to responders when Outside the Vehicle.

ASTRO Advanced Messaging Solution will be available on XTS 5000 Dual Display Portable radios. Advanced Messaging is NOT supported on XTS 5000 Top Display Portable radios.

Ordering ASTRO Advanced Messaging Solution for XTS 5000 Portable Requires:

- XTS 5000 Dual Display
 - ASTRO Digital CAI Operation (Q806)
 - P25 Conventional (H35)
 - Packet Data Interface (Q947)
- OR**
- XTS 5000 Dual Display
 - ASTRO Digital CAI Operation (Q806)
 - SmartZone Operation (H38)
 - ASTRO Project 25 Trunking Software (Q361)
 - Packet Data Interface (Q947)

NOTE: There is no specific option to order for the Advanced Messaging Solution on the subscribers as the functionality is included in the Packet Data option. Also, the text messaging functionality carries a per-radio charge on the server side of \$50 (one time license fee to access messaging services) per radio. When adding query the fee is \$125 per radio. For additional ordering guidelines of the AMS feature which includes the server and radio license fees, please visit -

<http://ecat.comm.mot.com/ecat/pricebooks/dup/MCCP.htm>

XTS 5000 - INTENT TO CANCEL MEMO

	Models		
Description		Nomenclature	APC Price
Options			
Accessories			

	Battery		
Description		Nomenclature	APC Price
IMPRES NIMH 1800 MAH BATT		NNTN4435B	453 \$123.00
BATT 1700 MAH FM NIMH		NNTN4436B	453 \$142.00
BATTERY IMPRES NIMH, 1700 MAH. INTRINSICALLY SAFE, RUGGEDIZED		NNTN4437B	453 \$147.00
<small>IMPRES batteries provide for automatic and adaptive reconditioning in IMPRES chargers, provide end of service life display, and real-time battery information when used with the IMPRES MUC with display.</small>			
BATTERY IMPRES LI-ION 4150 MAH		NNTN6034A	453 \$155.00
BATTERY IMPRES LI-ION 3950MAH FM RUGGED		NNTN7453A	453 \$171.00
<small>Li-Ion 3950mAh, IMPRES, Intrinsically Safe, Ruggedized</small>			
BATTERY NIMH, 1700 MAH. INTRINSICALLY SAFE		NTN8299 R	453 \$135.00
BAT HOLDER CLAMSHELL BLK		NTN9177	453 \$66.00
<small>Portable radio software version R07.00.02 or greater is required for use with this product. Clamshell battery requires 12 "AA" alkaline batteries to operate portable. "AA" batteries are NOT included. This battery is NOT FM approved or intrinsically safe. This battery will automatically reduce the radio's RF power to 2watts.</small>			
BAT HOLDER CLAMSHELL ORG		NTN9183	453 \$50.00
<small>Portable radio software version R01.20 or greater is required for use with this product. Clamshell battery requires 12 "AA" alkaline batteries to operate portable. "AA" batteries are NOT included. This battery is NOT FM approved or intrinsically safe. This battery will automatically reduce the radio's RF power to 2watts.</small>			
BATTERY IMPRES LION 2750 MAH		NTN9862C	453 \$150.00
<small>IMPRES batteries provide for automatic and adaptive reconditioning in IMPRES chargers, provide end of service life display, and real-time battery information when used with the IMPRES MUC with display.</small>			
BATT STD IP54 LIION4000M4200T		PMNN4449AR	453 \$99.75
BATTERY 3000 MAH FM NIMH		RNN4007 R	453 \$150.00
<small>Guaranteed for 70% of capacity 1 year, only Compatible with NTN1177/4796, 1168 and all TRI-Chem Chargers.</small>			

Battery Maintenance Systems

Description		Nomenclature	APC Price
NA FLEET MANAGEMENT LICENSE KEY		HKVN4036A	785 \$489.00
FLEET MANAGEMENT CHRGR INTERFACE UNIT		NNTN7677A	291 \$80.00
<small>Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.</small>			

Belt Clip(s)

Description	Nomenclature	APC	Price
3" PLASTIC BELT CLIP ATTACHMENT	HLN6875A	721	\$12.00

Belt Loops

Description	Nomenclature	APC	Price
3 INCH LEATHER SWIVEL BELT LOOP	NTN8040	476	\$12.00

Bluetooth, Mission Critical Wireless

Description	Nomenclature	APC	Price
XTS BLUETOOTH ADAPTER	RMN5104A	742	\$179.00

Carrying Case(s)

Description	Nomenclature	APC	Price
2.5 INCH LEATHER SWIVEL BELT LOOP	NTN8039	476	\$12.00
For use only with the High Activity Leather Swivel Snap Carry Cases.			
HIGH-ACTIVITY SWIVEL LEATHER CASE	NTN8380C	476	\$60.00
LEATHER CASE WITH BELT LOOP, D-RINGS AND T-STRAP	NTN8382B	476	\$51.00
LEATHER T-STRAP, PLAIN ACTION SNAP	NTN8383	476	\$10.50
LEATHER T-STRAP, HARD ACTION SNAP WITH ADDITIONAL STRENGTH AT SNAP	NTN8384	476	\$10.50
HIGH-ACTIVITY SWIVEL LEATHER CASE	NTN8385	476	\$60.00
Includes swivel belt loop and t-strap. 2.5" Snap NiCad or NiMH.			
HIGH-ACTIVITY SWIVEL LEATHER CASE	NTN8386	476	\$60.00
Includes swivel belt loop and t-strap. 3.0" Snap NiCad or NiMH.			
HIGH-ACTIVITY NYLON CASE WITH BELT LOOP AND T-STRAP	NTN8725	476	\$51.00
LEATHER CASE WITH BELT LOOP. FOR CLAMSHELL BATTERY	NTN9184	476	\$67.00
ACCESSORY KIT,FIREMAN'S RADIO STRAP	RLN6486A	271	\$37.00
ACCESSORY KIT,FIREMAN'S RADIO STRAP, XL	RLN6487A	271	\$40.00
ACCESSORY KIT,ANTI-SWAY STRAP	RLN6488A	271	\$15.00

Charger

Description	Nomenclature	APC	Price
CHARGER, 110 VOLT, US PLUG	NTN1667	476	\$100.00
VEHICULAR MOUNTING BRACKET AND HARD WIRE CABLE FOR SINGLE-UNIT	RLN4814	785	\$35.00
For use with single unit Motorola Conditioning Chargers. INCLUDES: mounting hardware and fused hard wire cable.			
VEHICULAR TRAVEL CHARGER	RLN4884	785	\$95.00
Utilizes the cigarette lighter adapter. INCLUDES: mounting bracket, custom coil cord, and charger. Travel charger is best used and compatible with 2" belt clip.			
IMPRES CHARGER	WPLN4111AR	785	\$165.00

Commport Integrated Microphone/Receiver

Description	Nomenclature	APC	Price
COMMPORT WITH PALM PTT	NTN1624	115	\$419.00
CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.			
COMMPORT WITH PTT ON RADIO ADAPTER	NTN1625	115	\$419.00
CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.			
COMMPORT WITH SNAP-ON SIDE PTT	NTN1736	115	\$429.00
CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.			

Earpieces

Description	Nomenclature	APC	Price
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	AARLN4885	742	\$25.00
UL Approved			
FLEXIBLE EAR RECEIVER	BDN6719	742	\$35.00
Flexible ear loop and speaker which rests external to the ear. REQUIRE BDN6676 (3.5mm adapter jack) that attaches to the radio. *HT1000 and XTS3000 requires BDN6676 (3.5mm adapter jack) that attaches to the radio. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS- Requires PMLN4455 - Intrinsically Safe (FM)			
EARBUD, MINI MICROPHONE AND PTT	BDN6780	742	\$67.00
*MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM).			
EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE)	BDN6781	742	\$27.00
*HT1000, XTS 3000, requires BDN6676 (3.5mm adapter jack) that attaches to the radio.			
*EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)			
*XTS 5000 & XTS 2500 requires BDN6676. Intrinsically Safe (FM). Assembled (receive only) with volume control & standard urethane earloop.			
*PR1500 - requires BDN6676 - Intrinsically Safe (FM)			
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	RLN4941A	742	\$58.00
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	RLN6230A	742	\$32.00
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	RLN6241A	742	\$20.00
QUICK DISCONNECT ACOUSTIC TUBE	RLN6242A	742	\$7.90
EAR RCVR W/COIL CBL&3.5MM PLUG	WADN4190B	742	\$43.00

Headsets

Description	Nomenclature	APC	Price
HEADSET LIGHTWEIGHT	NMN6245	785	\$149.00
Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM)			
EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)			
MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)	NMN6258	742	\$389.00
Medium Weight Headset, Over the Head, with In-Line PTT - Noise Reduction Rating = 24dB			

Medium Weight Headset, Behind the Head, with In-Line PTT - Noise Reduction Rating = 24dB	NMN6259	742	\$425.00
HEAVY-DUTY HEADSET			
MT Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 24 dB	RLN6477A	742	\$335.00
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES			
Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.	RMN4049	742	\$225.00
RUGGED TEMPLE TRANSDUCER HEADSET			
Features a noise cancelling boom microphone and In-Line PTT	RMN5049	742	\$340.00

Microphones

Description	Nomenclature	APC	Price
REMOTE SPEAKER MICROPHONE, IP57	PMMN4038A	372	\$88.50
REMOTE SPEAKER MIC, NC	PMMN4045B	372	\$97.00
REMOTE SPEAKER MIC, RX-JACK	PMMN4051B	372	\$89.00
THROAT MICROPHONE	RLN6478A	742	\$270.00
COMMANDERII REMOTE SPEAKER MICROPHONE W/OUT CHANNEL KNOB, SUBMERSIBLE	RMN5066B	372	\$215.00
COMMANDERII REMOTE SPEAKER MICROPHONE W/OUT CHANNEL KNOB, EARJACK	RMN5067B	372	\$150.00
COMMANDERII REMOTE SPEAKER MICROPHONE W/ CHANNEL KNOB, SUBMERSIBLE	RMN5088B	372	\$215.00
COMMANDERII REMOTE SPEAKER MICROPHONE W/ CHANNEL KNOB, EARJACK	RMN5089B	372	\$150.00

Multi Unit Chargers

Description	Nomenclature	APC	Price
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	WPLN4108 R	785	\$788.00

Public Safety Microphone(s)

Description	Nomenclature	APC	Price
PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 30 IN	NMN6247	476	\$155.00
PSM does not have emergency switch. For XTS 5000 UHF R1 use only approved antennas NAE6547 and NAE6549.			
PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 24 IN	NMN6250	476	\$155.00
PSM does not have emergency switch. For XTS 5000 UHF R1 use only approved antennas NAE6547 and NAE6549.			
PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 18 IN	NMN6251	476	\$155.00
PSM does not have emergency switch. For XTS 5000 UHF R1 use only approved antennas NAE6547 and NAE6549.			
RF ANTENNA SWITCH	NTN8327	476	\$140.00
The RF Switch has been removed from the XTS radio to provide cost savings on the model. Therefore, the external RF switch must be attached to the radio in order for the PSM to operate. A wrench tool must be used to place the RF switch. These kits must be ordered separately. REQUIRES ANTENNA. The RF switch and mics are FM approved.			

Surveillance

Description	Nomenclature	APC	Price
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	BDN6664	742	\$40.00
1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded.			
*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.			
*HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.			
*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.			
*PR1500 requires BDN6676 adapter. FM Approved			
EARPIECE RECEIVE ONLY WITH EXTRA LOUD EARPHONE - BEIGE (SINGLE WIRE)	BDN6665	742	\$42.00
1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded.			
*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.			
*HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.			
*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.			
*PR1500 requires BDN6676 adapter. FM Approved			
EARPIECE RECEIVE ONLY WITH VOLUME CONTROL - BEIGE (SINGLE WIRE)	BDN6666	742	\$53.00
1-Wire Receive-Only Surveillance Kit with Volume Control and Earpiece, Beige, 3.5mm Threaded.			
*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.			
*HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved.			
*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.			
*PR1500 requires BDN6676 adapter. FM Approved			
EARPIECE WITH MICROPHONE & PTT COMBINED - BEIGE (2 WIRE)	BDN6667	742	\$114.00
2-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded.			
*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.			
*XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.			
*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.			
*PR1500 requires BDN6676 adapter. FM Approved.			
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	BDN6668	742	\$135.00
3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded			
*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.			
*HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved.			
*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.			
*PR1500 requires BDN6676 adapter. FM Approved.			
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	BDN6669	742	\$118.00
2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded.			
*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.			
*HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved.			
*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.			
*PR1500 requires BDN6676 adapter. FM Approved.			
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	BDN6670	742	\$150.00
3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded.			
*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.			
*HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved.			
*EX500 & EX600 XLS require PMLN4455 adapter.			
*PR1500 requires BDN6676 adapter. FM Approved.			

<p>1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved</p>	BDN6726	742	\$40.00
<p>RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)</p> <p>1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved</p>	BDN6727	742	\$42.00
<p>EARPIECE RECEIVE ONLY WITH VOLUME CONTROL - BLACK (SINGLE WIRE)</p> <p>1-Wire Receive-Only Surveillance Kit with Volume Control and Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 3000 requires BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 requires new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	BDN6728	742	\$53.00
<p>EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)</p> <p>2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 require BDN6676 adapter. FM Approved.</p>	BDN6729	742	\$114.00
<p>EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)</p> <p>3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS requires PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	BDN6730	742	\$135.00
<p>EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)</p> <p>2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	BDN6731	742	\$118.00
<p>EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BLACK (3 WIRE)</p> <p>3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	BDN6732	742	\$150.00

Data Compiled 16-Feb-2015 using DUP and all prices in USD

XTS 5000 Last Order Entry Date : October 31, 2013

XTS 5000 Last Scheduled Ship Date: November 30, 2013

XTS 5000 Notification of Intent to Cancel Memo

**** Alternative products include the APX Series **--
APX7000 / APX7000XE / APX6000 / APX6000XE**

**ASTRO® Digital XTS 5000 Portable Series
VHF / TYPE 1 Encryption
SMARTNET® "Handie-Talkie™" Radio
Conventional/ Secure/ Trunked Radio Systems**



Special Note for United States - State & Local Markets only:

In accordance with FCC mandate, the XTS 5000 VHF products operating on Part 90 frequencies will be restricted to 12.5kHz or narrower operations on Jan. 1, 2013

[Ship Card](#)

Features

All ASTRO Digital XTS 5000 packaged models include the following hardware features:

- 3 Programmable Side Buttons
- Orange Emergency Button
- Illuminated 16 Position Mode Rotary Select Switch
- Angled On/Off Volume
- Low Battery Alert Tone
- Antenna (Band split and Type Dependent on Band Option)
- Smart Battery Technology
- Noise Reduction Software
- 1 Top Mounted Programmable Two Position Concentric Switch
- 1 Top Mounted Programmable Three Position Toggle Switch
- Weather Sealed Universal Connector
- Bi-Color LED Indicator
- Nickel Metal Hydride Battery
- Detachable Belt Clip
- ASTRO 25
- Audio Gain Control

ASTRO Digital XTS 5000 Model III also include:

- Full Keypad for Private Call
- 6 Lines Alphanumeric Display
- Date and Time Stamp
- Keypad Tone Mute
- Large Navigational Keypad
- Real Time Clock

All ASTRO Digital XTS 5000 Portables are part of the FLASHport® program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent upon remaining within the same RF deck.)

Physiological Monitoring Solution

Physiological Monitoring is now available on the ASTRO 25 XTS5000 and XTS2500 portable radios. The Zephyr BioHarness™ BT couples the pioneering Smart Fabric sensor technology of the comfortable and unobtrusive BioHarness™ garment with the power and ubiquity of Bluetooth®. BioHarness™ BT enables the capture and transmission of comprehensive physiological data on the wearer exclusively via MOTOROLA ASTRO RADIOS – enabling genuine remote monitoring of human performance and condition in the real world.

The BioHarness™ BT can be used in a diverse range of areas including sports, defense, first responder and healthcare. Its professional-grade BioHarness™ system monitors conditions such as heat state, dehydration or injury by measuring vital signs including heart rate, breathing rate, skin temperature, posture and activity. Using the subject's voice radio, the BioHarness communicates to monitoring software designed to give real-time alerts and post-event analysis.

BioHarness™ BT can be worn in virtually any environment – from combat situations to the training field. It maintains performance under extreme activity. Offering fast, accurate collection and analysis of high-quality, in-depth data, BioHarness™ BT is the definitive product for remote physiological monitoring in all conditions.

[Zephyr Physiological Monitoring Ordering Guide](#)

General Information

The ASTRO Digital XTS 5000 Portable Line offers three different radio hardware models:

Hardware Model	Modes	Alphanumeric Display	Keypad	Navigation Pad
		Lines/Characters		
		Per Line		
ASTRO XTS 5000 Model I	48	None	None	No
ASTRO XTS 5000 Model II	1000	6/12/front mount	3 x 2	Yes
ASTRO XTS 5000 Model III	1000	6/12/front mount	3 x 6	Yes

Operating Modes

ASTRO Digital XTS 5000 Radio Models are capable of operating in three different voice communication modes:

- Normal Analog (clear voice)
- 3.6KB ASTRO Digital (both clear and coded voice)
- 9.6KB ASTRO 25 Digital (both clear and coded voice)

The mode of operation is programmed on a channel-by-channel basis. With the coded/clear switch set to the clear mode, the ASTRO Digital XTS 5000 radio is capable of transmitting clear analog voice or clear (unencrypted) ASTRO digital voice, depending on the channel programming. With the coded/clear switch set to the coded mode, the ASTRO Digital XTS 5000 radio will transmit ASTRO Digital Encryption depending on the channel programming. ASTRO digital encryption provides communications security. ASTRO Digital Encryption (operating in encrypted mode while also operating in the 3.6KB or 9.6 KB ASTRO mode) is capable of XL type encryptions; ASTRO Digital Encryption Does not operate with non-XL encryptions.

An Encryption Option is not required for either clear analog operation or clear ASTRO digital operation. Encryption can be ordered with the ASTRO Digital XTS 5000 radio either as a factory installed option or separate from the radio for later field installation. ASTRO Digital XTS 5000 radio functions include selected ASTRO digital signaling and digital speech coding.

Please note that the XTS5000 does NOT support FRED.

CHANNEL SPACING

There are no maximum frequency separation conditions that must be adhered to on the ASTRO Digital XTS5000 Portable Radio Series. Separation of frequencies can be as wide as the allowable sub-band per radio model with no degradation of any performance specifications. If an incorrect antenna is used, degraded performance may be experienced.

FLASHport AFTERMARKET UPGRADES

The ASTRO Digital XTS 5000 Portable Series Radios are part of the FLASHport Program. This means that ASTRO Digital XTS 5000 hardware models can be loaded with different software packages that provide the features and functionalities that your customers require. Three different hardware models are available in each band split.

System Enhancement Options can be loaded at the time of radio purchase or at a later date through the use of software field upgrades (a RS232 cable or USB cable are required for all software upgrades.) The ASTRO Digital XTS 5000 portable can be upgraded electronically in the field with new features in the current system or to new systems operation (contingent upon remaining within the same RF sub-band) by ordering upgrade kits.

RELATIVE RADIATED RECEIVE SENSITIVITY

The relative radiated receive sensitivity test (formerly referred to as self-quieters) measures the sensitivity from 136.05MHz to 173.975MHz in 12.5kHz steps. The radio is set to 25kHz channel mode. These measurements were taken in a shielded environment so that degraded sensitivity at discrete frequencies is known to be due to the radio's self-interference (as opposed to external interference). The following list contains frequencies which were consistently found to have severely degraded performance on all measured radios.

Block Out Frequencies	approximate degradation in dB (+/-5dB)
168.0000 MHz	33
144.0000 MHz	15
151.2000 MHz	20
162.0000 MHz	15
168.5250 MHz	9
169.0000 MHz	8
147.4625 MHz	10
167.4750 MHz	8
150.0125 MHz	10

Ordering Requirements

Ordering procedure is as follows...

- 1 H18UCH9PW N ASTRO XTS 5000 Portable**
- 1A Q806 Digital Operation**
- 1B H38 SmartZone® Operation**
- 1C etc.**

1. Order the ASTRO Digital XTS 5000 Portable Series as the main line item (H18UCH9PW7_N).
2. Each hardware model MUST be ordered with one Operating Mode. One Operating Mode for each radio unit ordered. Choose between Analog or Digital Operation.
3. Each Hardware model MUST be ordered with one System Software Package. One System Software Package for each radio unit ordered.
 - o The matrix below list available radio wide, conventional features, and standard trunking features for SMARTNET® (H37) and SmartZone(H38) System Packages.
 - o The SmartZone features listed in the second matrix are available in the SmartZone(H38) package ONLY.
4. Select ANY desired System Enhancement Options
 - o System Enhancement Options can be loaded at the time of radio purchase or at a later date through the use of software field upgrades (a RS232 cable or USB cable are required for all software upgrades.)

COMMON SOFTWARE FEATURES SUPPORTED BY			
H37 "SMARTNET"/H38 "SmartZone"			
	"Analog Operation"(Q241)	"ASTRO Digital"(Q806)	"ASTRO Digital"(H38/Q806/Q361)
	Non-Project 25 (3600 Baud)	Non-Project 25 (3600 Baud)	Project 25 (9600 Baud)
RADIO WIDE FEATURES			
<i>Maximum Modes</i>			
ASTRO Digital XTS 5000 Model I	16/48	16/48	16/48
ASTRO Digital XTS 5000 Model II & III	1000	1000	1000
Analog and Digital Operation	-	Yes	Yes
12.5/20/25 KHz Programmable Channels	Yes	Yes	Yes
Secure Capable	No	Yes	Yes
One Touch Operation	Yes	Yes	Yes
Real Time Clock	Yes	Yes	Yes
Surveillance Mode	Yes	Yes	Yes
Keypad Lock	Yes	Yes	Yes
Radio Lock	Yes	Yes	Yes
Smart Battery	Yes	Yes	Yes
Radio Wide Transmit Inhibit	Yes	Yes	Yes
Time Out Timer	Yes	Yes	Yes
FLASHport	Yes	Yes	Yes
ANALOG CONVENTIONAL FEATURES			
Conventional Features are additional radio wide features beyond those specified above.			
CSQ/PL/DPL	Yes	Yes	Yes

Dual Priority Channel Scan	Yes	Yes	Yes
Adaptive Power Control	Yes	Yes	Yes
Repeater/Talkaround Operation	Yes	Yes	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes	Yes	Yes
Smart PTT	Yes	Yes	Yes
Monitor	Yes	Yes	Yes
DTMF Tone Generation	Yes	Yes	Yes
DIGITAL CONVENTIONAL SIGNALING FEATURES			
These features are APCO Project 25 Conventional Interoperable Features when used in the ASTRO Digital CAI Mode (Q806).			
Unaddressed Voice Call	-	Yes	Yes
Talk Group Call	-	Yes	Yes
Group Call Alert™	-	Yes	Yes
Talk Group Identification (TGID)	-	Yes	Yes
Selective Call (Individual Voice Call)	-	Yes	Yes
Selective Call Decode (Individual Voice Call)	-	Yes	Yes
PTT ID (Individual Identification)	-	Yes	Yes
Call Alert Encode/Decode	-	Yes	Yes
Emergency Alarm w/Channel Revert & Ack.	-	Yes	Yes
Telephone Interconnect	-	Yes	Yes
Unlimited (Model III Only)	-	Future	Future
Selective Radio Inhibit	-	Yes	Yes
Radio Check	-	Yes	Yes
Status/Message	-	Yes	Yes
Trunking Type II Only Features			
Maximum Number of Trunked Systems-20	Yes	Yes	Yes
Talkgroup Calls	Yes	Yes	Yes
PTT ID (H14 option required)	Yes	Yes	Yes
Call Alert Encode/Decode	Yes	Yes	Yes
Dual Mode Scan	Yes	Yes	Yes
Failsoft by Talkgroup	Yes	Yes	Yes
Telephone Interconnect Encode/Decode	Yes	Yes	Yes
System Wide Call (Receive Only)	Yes	Yes	Yes
Selective Radio Inhibit	Yes	Yes	Yes
Priority Monitor Scan	Yes	Yes	Yes
Dynamic Regrouping	Yes	Yes	Yes
Status/Message	Yes	Yes	Status Only
Private/Enhanced Conversation Encode/Decode	Yes	Yes	Yes
Remote Monitor/Radio Trace	Yes	Yes	No
Reprogram Request	Future	Future	Future

SOFTWARE FEATURES SUPPORTED BY			
H38 "SmartZone"			
	"Analog Operation" (Q241)	"ASTRO Digital" (Q806)	"ASTRO Digital" (H37/Q806/Q361)
		Non-Project 25 (3600 Baud)	Project 25 (9600 Baud)
Trunking Type II Only Features			
Voice on Control	Future	Future	Future
SmartZone Automatic Site Registration	Yes	Yes	Yes
SmartZone RSSI Operation	Yes	Yes	Yes
SmartZone Preferred Site	Yes	Yes	Yes
SmartZone Forced Site Search	Yes	Yes	Yes
SmartZone Site Lock/Unlock	Yes	Yes	Yes
SmartZone Adjacent Control Channel OSW	Yes	Yes	Yes
Emergency Alarm Call Receive Indication	Yes	Yes	Yes

LIMITED MDC FEATURES	
Offered in 6.3	
MDC PTT ID ENCODE/DECODE	YES
MDC Selective Radio Inhibit	Decode ONLY

MDC Call Alert	Yes
MDC Radio Check	Decode ONLY
MDC Voice Selective Call	Yes
MDC Remote Monitor	Decode ONLY
MDC Call Lists (Call Alert / Select Call)	Yes
MDC Emergency	Yes

CONVENTIONAL FACTORY PROGRAMMING

ASTRO Digital XTS 5000 portables ship without customer specific factory programming unless a programming options is specified.

FREQUENCY AND SQUELCH CODES

Although some models of the ASTRO Digital XTS 5000 are capable of 512 channels, the factory can accommodate the programming of only 128 continuous channels in any one radio. If the programming of more than 128 continuous channels is desired, field programming software must be used. **H477 ADD: Frequency & Squelch Data No Charge**

ZONED OPERATION

This option converts MODE-ONLY ASTRO Digital XTS 5000 portables to Zone Operation radios. A maximum of 16 RX and TX pairs can be placed into a zone. There is a maximum of three zones (48 modes) on the "I" Model, with zone operation programmed to the programmable top mounted two-position concentric switch. There is a maximum of 16 zones (512 modes) on the "II" and "III" models, and the zones will be programmed to be selected from the keypad. The factory can only accommodate the programming of only 128 continuous channels consisting of any combination of zones and channels and minimum of 32 channels with two zones on the "II" models. **When you ordering H477, H371 must be ordered. H371 ADD: ASTRO Digital XTS 5000 Zone Operation No Charge**

PROJECT 25 ENCRYPTION

When ordering any of the Encryption Algorithm:

- **Must** order the Encryption UCM Hardware (Q159)
 - The DES-OFB and AES encryptions offered are compliant with digital Project 25 standards and does not support analog encryption operation.
 - **Requires** the ASTRO Digital CAI (Q806) to operate the DES-OFB and AES encryption.
- If ordering a Dual Encryption:
 - The non-OFB encryption (XL versions) can be operated in either analog , or CAI digital mode, but will not be Project 25 compliant.
 - **Requires** the Multikey (H869).
- When used in CAI mode, the non-OFB Encryption will not be Project 25 compliant.
 - Encryption UCM Hardware (Q159) module may be ordered without an Encryption Algorithm for later upgrade in the field.

FIELD INSTALLED PROJECT 25 ENCRYPTION

The DES-OFB and AES-OFB encryptions offered are compliant with Project 25 standards. Operation of DES-OFB and/or AES-OFB encryption requires the ASTRO Digital CAI (Q806) option. Radios can be upgraded via FLASHport to CAI operation.

- If ordering a Dual Encryption:
 - The non-OFB encryption can be operated in analog or CAI mode (only XL versions operate in either digital mode).
 - **Requires** the Multikey (H869).
- When used in the CAI mode, the non-OFB encryption will not be Project 25 compliant.

FIPS 140-2 Compliance

Encryption Modules equipped with AES are FIPS 140-2 compliant. Further information regarding FIPS 140-2 certification may be found using the following links:

[FIPS 140-2 Crypto Module Validation Program \(CMVP\)](#)

[NIST Cryptographic Module Validation Lists](#)

FM INFORMATION

The XTS 5000 portable radio when properly equipped with options Q393AN and Q393RUGDAR are Factory Mutual (FM/CSA) Approved as intrinsically safe for use in Class I, II, III, Division 1, Group C, D, E, F, and G and Nonincendive Class I, Division 2, Group A, B, C and D, when ordered without encryption modules.

The XTS 5000 portables equipped with UCM encryption modules and options Q393AP and Q393RUGDAQ are FM Approved as Intrinsically Safe for use in Class I, II, III, Division 1, Group D, F, G and Nonincendive for use in Class I, Div 2, Group A, B, C, D only.

XTS 5000 FM/CSA approved portable radio models installed with Type 1 encryption module (Q374 or Q400), are intrinsically safe for use in the Nonincendive, Class I, Division 2, Groups A, B, C, D, when used with Motorola FM/CSA approved battery options Q393AV and Q393RUGDAW or H223CP and H223RUGDCW. Type 1 is not offered on either the 700/800 or UHF R2 bands.

ASTRO Text Messaging Service

ASTRO Text Messaging Service will be available on ASTRO 25 XTS 5000, XTS 2500 Portable radios and ASTRO 25 XTL 5000, XTL 2500 Mobile radios. Text

Messaging Service (TMS) allows subscriber users to send and receive text messages to other subscribers or dispatch operators. Users can select messages and addresses from a predefined list or enter freeform text messages and addresses via the keypad. Text Messaging Service is available on ASTRO Trunked IV&D Systems and Subscribers. Subscribers must have version R09.00.00 or later of both Customer Programming Software (CPS) and Radio software .

For full Text Messaging functionality, including freeform text messaging and addressing, must order Model III XTS5000 portables. Model II versions support Limited Text Messaging functionality such as selecting predefined messages or addresses from a list programmed in the radio. Text messaging service is NOT supported on Model I Portables.

Ordering requirements for XTS 5000 Portable:

- Requires Model II or Model III XTS 5000
- ASTRO Digital CAI Operation (G806)
- SmartZone Operation (H38)
- ASTRO Project 25 Trunking Software (Q361)
- Packet Data Interface (Q947)

NOTE: There is no specific option to order for the Text Messaging Service on the subscribers as the functionality is included in the Packet Data option.

Outdoor Personnel Location Global Positioning Satellite (GPS) Feature

The personnel outdoor location tracking GPS feature enables a dispatcher the ability to locate on-foot patrols and out of the vehicle officers who are involved in life threatening situations. The radio user's GPS position information is sent over the ASTRO 25 Integrated Voice & Data (IV&D) network and is delivered to the dispatch operator using a third party mapping display application at the dispatch center (*Mapping Application is not yet available through Motorola at this time, however an Application Developers Tool Kit is available for 3rd party vendors to use to modify existing applications. See link below for more details.*)

This capability is now available on ASTRO 25 Conventional IV&D Systems and ASTRO 25 Trunking IV&D Systems on XTS 5000 Models I, II, III and Ruggedized with appropriate radio software (see below).

Required equipment for operating in ASTRO 25 Conventional IV&D and ASTRO 25 Trunking IV&D Systems is as follows:

	ASTRO 25 Conventional IV&D	ASTRO 25 Trunking IV&D
Radio Software	Version R09.00.00 or later	Version R09.00.00
Customer Programming Software (CPS)	Version R09.00.00 or later (RVN4181)	Version R09.00.00 or later (RVN4181)
ASTRO CAI operation	Q806	Q806
System Enhancement Software	H35 (or H37, H38 in Conventional Mode)	H38
ASTRO Project 25 Trunking Software		Q361
GPS Remote Speaker Microphone/GPS Remote Speaker Microphone with Earjack	HMN4080 or HMN4084	HMN4080 or HMN4084

For fielded XTS 5000 Portables that are already Conventional IMBE Digital Enabled or Trunking IMBE Digital Enabled, see FLASHport upgrade Price Pages to order a software refresh to get the GPS enabled software.

During normal operation the radio's battery capacity will be reduced by 10% to 16% based on 1 location update per minute.

NOT COMPATIBLE with Man -Down Side Connector (NTN7660), Clamshell Battery Holder (Q495, Q496, NTN9177, NTN9183).

For further information refer regarding System Requirements, go to the Location Solutions Price Page at:

<http://ecat.comm.mot.com/ecat/pricebooks/dup/ALLOCATION.htm>

NOTE:

The GPS technology uses radio signals from earth orbiting satellites, to establish the location co-ordinates, maximizing your view of clear, unobstructed sky is essential for optimum performance. Where adequate signals from multiple satellites are not available, (usually because you cannot establish a view of a wide area of the sky), the GPS feature of your GPS RSM WILL NOT WORK. Such situations include but are not limited to:

- In underground locations
- Inside of buildings, trains, or other covered vehicles
- Under any other metal or concrete roof or structure
- Between tall buildings or under dense tree-cover

PUBLIC SAFETY SPEAKER MICROPHONES (PSM)

The RF switch has been removed from the XTS Radio to provide cost savings on the model. Therefore, the EXTERNAL RF SWITCH must be ORDERED and then ATTACHED to the radio in order for the PSM to operate. A wrench tool must be used to place the RF switch. These kits must be ordered separately. The RF switch and microphones are FM approved.

FCC Information

FCC IDENTIFIER: AZ489FT3804

Name of Grantee: Motorola Inc

Equipment Class: Licensed Non-Broadcast Transmitter Held to Face**Notes: Astro XTS 5000 Digital Portable****Modular Type: Does not apply**

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
BE	80, 90	136.0 - 174.0	6.6	2.0 PM	16K0F3E
BE	80, 90.210	136.0 - 174.0	6.6	2.0 PM	11K0F3E
BE	80, 90.210	136.0 - 174.0	6.6	2.0 PM	8K10F1E
BE	80, 90.210	136.0 - 174.0	6.6	2.0 PM	8K10F1D
BE	80, 90	136.0 - 174.0	6.6	2.0 PM	20K0F1E

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

[XTS 5000 Catalog Sheet](#)

[XTS Vehicular Adapter \(XTVA\)](#)

Here is a link for the [XTS 5000 notation](#).

ASTRO Advanced Messaging Solution (AMS)

The ASTRO 25 Advanced Messaging Solutions is the latest messaging platform from Motorola Solutions and will replace ASTRO Text Messaging Service (TMS). As a complete end-to-end solution it leverages the core assets of ASTRO 25 IV&D/CID networks, ASTRO 25 radios, Integrated Command Center applications and Unified Network Services. The application allows responders to send/receive messages and run database queries from ASTRO 25 data enabled portable radios, extending real time information access to the field so dispatchers and first responders can be more efficient and achieve safer outcomes.

Provides functional parity with TMS and leverages the PremierOne messaging services platform, offering multiple configurations to enhance and extend core messaging functionality that can include queries and dispatch notifications. Based upon the configuration chosen, ASTRO 25 Advanced Messaging Solution extends Computer Aided Dispatch (CAD) information beyond the vehicle to select ASTRO 25 Portable radios.

Many Public Safety agencies have experienced the benefits of messaging and sharing important information to/from the communication center (dispatch) and vehicles equipped with MDT's. With ASTRO 25 Advanced Messaging Solution we are extending that capability to responders when Outside the Vehicle.

ASTRO Advanced Messaging Solution will be available on XTS 5000 Dual Display Portable radios. Advanced Messaging is NOT supported on XTS 5000 Top Display Portable radios.

Ordering ASTRO Advanced Messaging Solution for XTS 5000 Portable Requires:

- . XTS 5000 Dual Display
 - . ASTRO Digital CAI Operation (Q806)
 - . P25 Conventional (H35)
 - . Packet Data Interface (Q947)
- OR**
- . XTS 5000 Dual Display
 - . ASTRO Digital CAI Operation (Q806)
 - . SmartZone Operation (H38)
 - . ASTRO Project 25 Trunking Software (Q361)
 - . Packet Data Interface (Q947)

NOTE: There is no specific option to order for the Advanced Messaging Solution on the subscribers as the functionality is included in the Packet Data option. Also, the text messaging functionality carries a per-radio charge on the server side of \$50 (one time license fee to access messaging services) per radio. When adding query the fee is \$125 per radio. For additional ordering guidelines of the AMS feature which includes the server and radio license fees, please visit -

<http://ecat.comm.mot.com/ecat/pricebooks/dup/MCCP.htm>

XTS 5000 - INTENT TO CANCEL MEMO

Models

Description	Nomenclature	APC	Price
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Options

Accessories

Adapter

Description	Nomenclature	APC	Price
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$52.50

Antenna

Description	Nomenclature	APC	Price
ANTENNA, 136-174MHZ WIDEBAND DIPOLE	NAD6563	476	\$24.00
ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	NAD6566	476	\$16.50
ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	NAD6567	476	\$16.50
ANTENNA, 162-178MHZ WIDEBAND HELICAL	NAD6568	476	\$16.50

Battery

Description	Nomenclature	APC	Price
IMPRES NIMH 1800 MAH BATT	NNTN4435B	453	\$123.00
BATT 1700 MAH FM NIMH	NNTN4436B	453	\$142.00
BATTERY IMPRES NIMH, 1700 MAH. INTRINSICALLY SAFE, RUGGEDIZED IMPRES batteries provide for automatic and adaptive reconditioning in IMPRES chargers, provide end of service life display, and real-time battery information when used with the IMPRES MUC with display.	NNTN4437B	453	\$147.00
BATTERY IMPRES LI-ION 4150 MAH	NNTN6034A	453	\$155.00
BATTERY IMPRES LI-ION 3950MAH FM RUGGED Li-Ion 3950mAh, IMPRES, Intrinsically Safe, Ruggedized	NNTN7453A	453	\$171.00
BATTERY NIMH, 1700 MAH. INTRINSICALLY SAFE	NTN8299 R	453	\$135.00
BAT HOLDER CLAMSHELL BLK Portable radio software version R07.00.02 or greater is required for use with this product. Clamshell battery requires 12 "AA" alkaline batteries to operate portable. "AA" batteries are NOT included. This battery is NOT FM approved or Intrinsically safe. This battery will automatically reduce the radio's RF power to 2watts.	NTN9177	453	\$66.00
BAT HOLDER CLAMSHELL ORG Portable radio software version R01.20 or greater is required for use with this product. Clamshell battery requires 12 "AA" alkaline batteries to operate portable. "AA" batteries are NOT included. This battery is NOT FM approved or Intrinsically safe. This battery will automatically reduce the radio's RF power to 2watts.	NTN9183	453	\$50.00
BATTERY IMPRES LION 2750 MAH IMPRES batteries provide for automatic and adaptive reconditioning in IMPRES chargers, provide end of service life display, and real-time battery information when used with the IMPRES MUC with display.	NTN9862C	453	\$150.00
BATT STD IP54 LIION4000M4200T	PMNN4449AR	453	\$99.75
BATTERY 3000 MAH FM NIMH Guaranteed for 70% of capacity 1 year, only Compatible with NTN1177/4796, 1168 and all TRI-Chem Chargers.	RNN4007 R	453	\$150.00

Battery Maintenance Systems

Description	Nomenclature	APC	Price
NA FLEET MANAGEMENT LICENSE KEY	HKVN4036A	785	\$489.00
IMPRES BATTERY DATA READER Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO,TRBO & APX adapter included)	NNTN7392	785	\$250.00
FLEET MANAGEMENT CHRGR INTERFACE UNIT Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$80.00

Belt Clip(s)

Description	Nomenclature	APC	Price
3" PLASTIC BELT CLIP ATTACHMENT	HLN6875A	721	\$12.00

Belt Loops

Description	Nomenclature	APC	Price
3 INCH LEATHER SWIVEL BELT LOOP	NTN8040	476	\$12.00

Bluetooth, Mission Critical Wireless

Description	Nomenclature	APC	Price
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MISSION CRITICAL WIRELESS ADAPTER	PMLN5792A	742	\$99.00
Mission Critical Wireless Adapter is not intrinsically safe nor approved for use in Hazardous Locations			
XTS BLUETOOTH ADAPTER	RMN5104A	742	\$179.00

Carrying Case(s)

Description	Nomenclature	APC	Price
2.5 INCH LEATHER SWIVEL BELT LOOP	NTN8039	476	\$12.00
For use only with the High Activity Leather Swivel Snap Carry Cases.			
HIGH-ACTIVITY SWIVEL LEATHER CASE	NTN8380C	476	\$60.00
LEATHER CASE WITH BELT LOOP, D-RINGS AND T-STRAP	NTN8382B	476	\$51.00
LEATHER T-STRAP, PLAIN ACTION SNAP	NTN8383	476	\$10.50
LEATHER T-STRAP, HARD ACTION SNAP WITH ADDITIONAL STRENGTH AT SNAP	NTN8384	476	\$10.50
HIGH-ACTIVITY SWIVEL LEATHER CASE	NTN8385	476	\$60.00
Includes swivel belt loop and t-strap. 2.5" Snap NiCad or NiMH.			
HIGH-ACTIVITY SWIVEL LEATHER CASE	NTN8386	476	\$60.00
Includes swivel belt loop and t-strap. 3.0" Snap NiCad or NiMH.			
LEATHER CARRY CASE WITH BELT LOOP, D-RINGS AND T-STRAP	NTN8387	476	\$51.00
Includes snap belt loop/t-strap. For NiCad or NiMH			
HIGH-ACTIVITY NYLON CASE WITH BELT LOOP AND T-STRAP	NTN8725	476	\$51.00
LEATHER CASE WITH BELT LOOP. FOR CLAMSHELL BATTERY	NTN9184	476	\$67.00
ACCESSORY KIT,FIREMAN'S RADIO STRAP	RLN6486A	271	\$37.00
ACCESSORY KIT,FIREMAN'S RADIO STRAP, XL	RLN6487A	271	\$40.00
ACCESSORY KIT,ANTI-SWAY STRAP	RLN6488A	271	\$15.00

Charger

Description	Nomenclature	APC	Price
CHARGER, 110 VOLT, US PLUG	NTN1667	476	\$100.00
VEHICULAR MOUNTING BRACKET AND HARD WIRE CABLE FOR SINGLE-UNIT	RLN4814	785	\$35.00
For use with single unit Motorola Conditioning Chargers. INCLUDES: mounting hardware and fused hard wire cable.			
VEHICULAR TRAVEL CHARGER	RLN4884	785	\$95.00
Utilizes the cigarette lighter adapter. INCLUDES: mounting bracket, custom coil cord, and charger. Travel charger is best used and compatible with 2" belt clip.			
IMPRES CHARGER	WPLN4111AR	785	\$165.00

Commport Integrated Microphone/Receiver

Description	Nomenclature	APC	Price
COMMPORT WITH PALM PTT	NTN1624	115	\$419.00
CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.			
COMMPORT WITH PTT ON RADIO ADAPTER	NTN1625	115	\$419.00
CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.			
COMMPORT WITH SNAP-ON SIDE PTT	NTN1736	115	\$429.00
CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.			

Earpieces

Description	Nomenclature	APC	Price
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	AARLN4885	742	\$25.00
UL Approved			
FLEXIBLE EAR RECEIVER	BDN6719	742	\$35.00
Flexible ear loop and speaker which rests external to the ear. REQUIRE BDN6676 (3.5mm adapter jack) that attaches to the radio. *HT1000 and XTS3000 requires BDN6676 (3.5mm adapter jack) that attaches to the radio. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS- Requires PMLN4455 - Intrinsically Safe (FM)			
EARBUD, MINI MICROPHONE AND PTT	BDN6780	742	\$67.00
*MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM).			
EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE)	BDN6781	742	\$27.00
*HT1000, XTS 3000, requires BDN6676 (3.5mm adapter jack) that attaches to the radio. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM) *XTS 5000 & XTS 2500 requires BDN6676. Intrinsically Safe (FM). Assembled (receive only) with volume control & standard urethane earloop. *PR1500 - requires BDN6676 - Intrinsically Safe (FM)			
BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	PMLN5464	742	\$395.00
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	RLN4941A	742	\$58.00
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	RLN6230A	742	\$32.00
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	RLN6241A	742	\$20.00
QUICK DISCONNECT ACOUSTIC TUBE	RLN6242A	742	\$7.90
EAR RCVR W/COIL CBL&3.5MM PLUG	WADN4190B	742	\$43.00

Headsets

Description	Nomenclature	APC	Price
HEADSET LIGHTWEIGHT	NMN6245	785	\$149.00
Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)			
MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)	NMN6258	742	\$389.00
Medium Weight Headset, Over the Head, with In-Line PTT - Noise Reduction Rating = 24dB			
MED DUTY HEADSET, BEHIND-THE-HEAD, W/IN-LINE PTT-NRR= 24DB-INTRIN (FM)	NMN6259	742	\$425.00
Medium Weight Headset, Behind the Head, with In-Line PTT - Noise Reduction Rating = 24dB			
HEAVY DUTY HEADSET PMLN5278B	PMLN5278B	742	\$439.00
HEAVY-DUTY HEADSET	RLN6477A	742	\$335.00
MT Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 24 dB			
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	RMN4049	742	\$225.00
Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.			
BUCCEED TEMPLE TRANSDUCER HEADSET			

Features a noise cancelling boom microphone and In-Line PTT	RMN5049	742	\$340.00
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Microphones

Description	Nomenclature	APC	Price
GPS R2 SMART/NON-SUBM RSM FM GPS R2.0 RSM, 3.5mm audio jack XTS2500 compatibility requires B tanapa version hardware and radio host R10.00.00 or later XTS5000 compatibility requires radio host cost R06.01.00 or later. FM compliant	HMN4112A	372	\$350.00
GPS R2 SMART/SUBM RSM FM GPS R2.0 RSM, Submersible XTS2500 compatibility requires B tanapa version hardware and radio host R10.00.00 or later XTS5000 compatibility requires radio host cost R06.01.00 or later. FM compliant	HMN4113A	372	\$350.00
REMOTE SPEAKER MICROPHONE, IP57	PMMN4038A	372	\$88.50
REMOTE SPEAKER MIC, NC	PMMN4045B	372	\$97.00
REMOTE SPEAKER MIC, RX-JACK	PMMN4051B	372	\$89.00
THROAT MICROPHONE	RLN6478A	742	\$270.00
COMMANDERII REMOTE SPEAKER MICROPHONE W/OUT CHANNEL KNOB, SUBMERSIBLE	RMN5066B	372	\$215.00
COMMANDERII REMOTE SPEAKER MICROPHONE W/OUT CHANNEL KNOB, EARJACK	RMN5067B	372	\$150.00
COMMANDERII REMOTE SPEAKER MICROPHONE W/ CHANNEL KNOB, SUBMERSIBLE	RMN5088B	372	\$215.00
COMMANDERII REMOTE SPEAKER MICROPHONE W/ CHANNEL KNOB, EARJACK	RMN5089B	372	\$150.00

Multi Unit Chargers

Description	Nomenclature	APC	Price
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	WPLN4108 R	785	\$788.00

Public Safety Microphone(s)

Description	Nomenclature	APC	Price
PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 30 IN PSM does not have emergency switch. For XTS 5000 UHF R1 use only approved antennas NAE6547 and NAE6549.	NMN6247	476	\$155.00
PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 24 IN PSM does not have emergency switch. For XTS 5000 UHF R1 use only approved antennas NAE6547 and NAE6549.	NMN6250	476	\$155.00
PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 18 IN PSM does not have emergency switch. For XTS 5000 UHF R1 use only approved antennas NAE6547 and NAE6549.	NMN6251	476	\$155.00
RF ANTENNA SWITCH The RF Switch has been removed from the XTS radio to provide cost savings on the model. Therefore, the external RF switch must be attached to the radio in order for the PSM to operate. A wrench tool must be used to place the RF switch. These kits must be ordered separately. REQUIRES ANTENNA. The RF switch and mics are FM approved.	NTN8327	476	\$140.00

Surveillance

Description	Nomenclature	APC	Price
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE) 1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6664	742	\$40.00
EARPIECE RECEIVE ONLY WITH EXTRA LOUD EARPHONE - BEIGE (SINGLE WIRE) 1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6665	742	\$42.00
EARPIECE RECEIVE ONLY WITH VOLUME CONTROL - BEIGE (SINGLE WIRE) 1-Wire Receive-Only Surveillance Kit with Volume Control and Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6666	742	\$53.00
EARPIECE WITH MICROPHONE & PTT COMBINED - BEIGE (2 WIRE) 2-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6667	742	\$114.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE) 3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6668	742	\$135.00
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE) 2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6669	742	\$118.00
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE) 3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.	BDN6670	742	\$150.00

not required. FM Approved.

*EX500 & EX600 XLS require PMLN4455 adapter.

*PR1500 requires BDN6676 adapter. FM Approved.

EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)

BDN6726 742 \$40.00

1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded.

*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.

*HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.

*XTS 2500 & XTS 5000 require new adaptor. FM Approved.

*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.

*PR1500 requires BDN6676 adapter. FM Approved

RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)

BDN6727 742 \$42.00

1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded.

*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.

*HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.

*XTS 2500 & XTS 5000 require new adaptor. FM Approved.

*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.

*PR1500 requires BDN6676 adapter. FM Approved

EARPIECE RECEIVE ONLY WITH VOLUME CONTROL - BLACK (SINGLE WIRE)

BDN6728 742 \$53.00

1-Wire Receive-Only Surveillance Kit with Volume

Control and Earpiece, Black, 3.5mm Threaded.

*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.

*XTS 3000 requires BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.

*XTS 2500 & XTS 5000 requires new adaptor. FM Approved.

*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.

*PR1500 requires BDN6676 adapter. FM Approved.

EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)

BDN6729 742 \$114.00

2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded.

*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.

*XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.

*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.

*PR1500 require BDN6676 adapter. FM Approved.

EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)

BDN6730 742 \$135.00

3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded.

*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.

*HT1000 & XTS 3000 require BDN6676 adapter.

*XTS 2500 & XTS 5000 require new adaptor. FM Approved.

*EX500 & EX600 XLS requires PMLN4455 adapter. FM Approved.

*PR1500 requires BDN6676 adapter. FM Approved.

EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)

BDN6731 742 \$118.00

2-Wire Receive-Only Surveillance Kit with Extra-

Loud Earpiece, Black, 3.5mm Threaded.

*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.

*HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved.

*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.

*PR1500 requires BDN6676 adapter. FM Approved.

EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)

BDN6732 742 \$150.00

3-Wire Receive-Only Surveillance Kit with Extra-

Loud Earpiece, Black, 3.5mm Threaded.

*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.

*HT1000 & XTS 3000 require BDN6676 adapter.

*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.

*PR1500 requires BDN6676 adapter. FM Approved.

Data Compiled 16-Feb-2015 using DUP and all prices in USD

**ASTRO® Digital XTS 1500 Portable Series
700 / 800 MHz Band
Wide Area SmartZone® "Handie-Talkie™" Radio
Trunked Radio Systems**



XTS 1500 Last Order Entry Date : October 31, 2014

XTS 1500 Last Scheduled Ship Date: November 30, 2014

[XTS 1500 Notification of Intent to Cancel Memo](#)

**** Alternative product includes the APX Series ** – [APX1000 \(Available - August 2014\)](#)**

***Please note that NEW version of Customer Programming Software (CPS) (Part # RVN4181/ RVN4186) is required for initial customer orders for XTS radios. ***

[Ship Card](#)

Features

All ASTRO Digital XTS 1500 packaged models include the following hardware features:

- 3 Programmable Side Buttons
- Orange Emergency Button
- 16 Position Mode Rotary Select Switch
- On/Off Volume
- Low Battery Alert Tone
- Antenna (Bandsplit and Type Dependent on Band Option)
- Noise Reduction Software
- 1 Top Mounted Programmable Three Position Concentric Switch
- Weather Sealed Universal Connector
- Bi-Color LED Indicator
- IMPRES Nickel Metal Hydride Battery (NTN9858)
- Detachable Belt Clip
- ASTRO 25
- Audio Gain Control

All ASTRO Digital XTS 1500 Portables are part of the FLASHport program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent upon remaining within the same RF deck.)

General Information

The ASTRO Digital XTS 1500 Portable Line offers a Model I radio:

Hardware Model	Modes	Alphanumeric Display Lines/Characters	Keypad	Navigation Pad
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		Per Line		
ASTRO XTS 1500 Model I	48	None	None	No
ASTRO XTS 1500 Model 1.5	256	4 lines / 12 characters	None	No

Operating Modes

ASTRO Digital XTS 1500 Radio Models are capable of operating in three software packages listed below:

- 3.6KB ASTRO Digital/Analog Trunking
- 9.6KB ASTRO 25 Digital Trunking
- 9.6KB APCO P25 Digital Conventional

The ASTRO Digital XTS 1500 Portable is capable of 16 modes when the programmable Concentric Top Mounted Switch is used for Zone Operation. The mode of operation is programmed on a channel-by-channel basis.

There are no maximum frequency separation conditions that must be adhered to on the ASTRO Digital XTS 1500 Portable Radio Series. Separation of frequencies can be as wide as the allowable sub-band per radio model with no degradation of any performance specifications. Mutual Aid channels 821-824 will be supported. If an incorrect antenna is used, degraded performance may be experienced.

The ASTRO Digital XTS 1500 portable can be upgraded electronically (via RS232 cable or USB cable are required for all software upgrades) in the field with new systems operation (contingent upon remaining within the same RF sub-band) by ordering upgrade kits.

Please note that the XTS 1500 does NOT support FRED.

RELATIVE RADIATED RECEIVE SENSITIVITY

The relative radiated receive sensitivity test (formerly referred to as self-quieters) measure the sensitivity from 764MHz to 870Mhz in 12.5kHz steps. The radio is set to 25kHz channel mode. These measurements were taken in a shielded environment so that degraded sensitivity at discrete frequencies is known to be due to the radio's self-interference (as opposed to external interference.) The following list contains frequencies which were consistently found to have severely degraded performance on all measured radios:856.3375, 857.7000, 860.7000, 862.2000, 863.7000, 867.3000, 864.0000.

FM INFORMATION

The XTS 1500 portable radio when properly equipped with options H223 and Q393 are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, II, III, Groups C, D, E, F, G, T3C without encryption modules.

The XTS 1500 portable radio when properly equipped with options H223 and Q393 are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, Class II, Class III, Groups D ,F, G, T3C with encryption modules.

Ordering Requirements

Ordering procedure is as follows:

1	H66UC_9PW5_N	ASTRO XTS 1500 Portable
1A	Qxxx	System Software
1B	etc	Other options

1. Order the ASTRO Digital XTS 1500 Portable Series as the main line item (H66UCC9PW5 N).
2. Each hardware model MUST be ordered with one Operating Mode. One Operating Mode Package MUST be ordered for each radio unit ordered. Choose between 9600 Trunking, 3600 Analog/ Digital Trunking, 3600 Analog only and P25 Conventional Operation.

SOFTWARE FEATURES SUPPORTED BY			
Q574 Wide Area SmartZone / Q575 Wide Area SmartZone / Q443 Wide Area Analog SmartZone/ Q811 P25 Digital Conventional			
	"ASTRO Digital"(Q575)	"ASTRO Digital"(Q574)	P25 Conventional (Q811)
	Non-Project 25 (3600 Baud)	Project 25 (9600 Baud)	Project 25 Conventional
RADIO WIDE FEATURES			
Maximum Modes			
ASTRO Digital XTS 1500 Model 1/1.5	48/256	48/256	48/256
Analog and Digital Operation	Yes	Yes	Yes

12.5/20/25 KHz Programmable Channels	Yes	Yes	Yes
Secure Capable	No	No	No
One Touch Operation	No	No	No
Real Time Clock	No	No	No
Surveillance Mode	No	No	No
Keypad Lock	No	No	No
Radio Lock	Yes	Yes	Yes
Smart Battery (NiCAD Only)	Yes	Yes	Yes
Radio Wide Transmit Inhibit	No	No	No
Time Out Timer	Yes	Yes	Yes
FLASHport	Yes	Yes	Yes
ANALOG CONVENTIONAL FEATURES			
Conventional Features are additional radio wide features beyond those specified above.			
CSQ/PL/DPL	Yes	Yes	Yes
Adaptive Power Control	Yes	Yes	Yes
Dual Priority Channel Scan	No	No	Yes
Repeater/Talkaround Operation	Yes	Yes	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes	Yes	Yes
Smart PTT	Yes	Yes	Yes
Monitor	Yes	Yes	Yes
DTMF Tone Generation	-	-	-
Adaptive Power Control	Yes	Yes	Yes
MDC-1200 Emergency Call	Yes	Yes	Yes
MDC-1200 Silent Emergency Alarm	No	No	No
MDC-1200 PTT-ID Encode	Yes	Yes	Yes
MDC Repeater Access	Yes	Yes	Yes
MDC Request to Talk (RTT)	Yes	Yes	Yes
MDC Status, Status Request, Message	Yes	Yes	Yes
DIGITAL CONVENTIONAL SIGNALING FEATURES			
These features are APCO Project 25 Conventional Interoperable Features when used in the ASTRO Digital CAI Mode (Q806).			
Unaddressed Voice Call	Yes	Yes	Yes
Talk Group Call	Yes	Yes	Yes
Group Call Alert™	Yes	Yes	Yes
Talk Group Identification (TGID)	Yes	Yes	Yes
Selective Call (Individual Voice Call)	Yes	Yes	Yes
PTT ID (Individual Identification)	Yes	Yes	Yes
Call Alert Decode	Yes	Yes	Yes
Emergency Alarm w/Channel Revert & Ack.	Yes	Yes	Yes
Telephone Interconnect	-	-	-
Selective Radio Inhibit	Yes	Yes	Yes
Radio Check	-	-	-
Status/Message	No	No	No
Trunking Type II Only Features			
Maximum Number of Trunked Systems-16	Yes	Yes	No
Talkgroup Calls	Yes	Yes	No
PTT ID (Digital Only)	Model I - Encode only Model 1.5 - Encode and Decode	Model I - Encode only Model 1.5 - Encode and Decode	Model I - Encode only Model 1.5 - Encode and Decode
Call Alert Decode	Yes	Yes	No
Dual Mode Scan	Yes	No	No
Failsoft by Talkgroup	Yes	Yes	No
Telephone Interconnect Decode	Yes	Yes	No
System Wide Call (Receive Only)	Yes	No	No

Selective Radio Inhibit	Yes	Yes	No
Priority Monitor Scan	Yes	Yes	No
Dynamic Regrouping	Yes	Yes	No
Status/Message	Yes	Yes	No
Private/Enhanced Conversation Decode	Yes	Yes	No
Radio Check	No	No	No
Remote Monitor/Radio Trace	No	No	No
Reprogram Request	No	Yes	No
SmartZone® Trunking Type II Only Features			
Voice on Control	Future	Future	No
SmartZone Automatic Site Registration	Yes	Yes	No
SmartZone RSSI Operation	Yes	Yes	No
SmartZone Preferred Site	Yes	Yes	No
SmartZone Forced Site Search	Yes	Yes	No
SmartZone Site Lock/Unlock	Yes	Yes	No
SmartZone Adjacent Control Channel OSW	Yes	Yes	No
Emergency Alarm Call Receive Indication	Yes	Yes	No

Legend:

Blue=Feature to be added in a Future Release

Green=New XTS 1500 Features

Programming of the following frequencies are not allowed 772.8000, 774.0000, 856.8000, and 864.0000 MHz

FCC Information

FCC IDENTIFIER: AZ489FT5804

Name of Grantee: Motorola Solutions, Inc.

Equipment Class: Licensed Non-Broadcast Transmitter Held to Face
Notes: **ASTRO DIGITAL XTS2500 PORTABLE**

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
BH	80, 90, 90.210	764.0 - 870.0	3.0	1.5 PM	16K0F3E
BH	80, 90, 90.210	764.0 - 870.0	3.0	1.5 PM	11K0F3E
BH	80, 90, 90.210	764.0 - 870.0	3.0	1.5 PM	8K10F1E
BH	80, 90, 90.210	764.0 - 870.0	3.0	1.5 PM	8K10F1D
BH	80, 90, 90.210	764.0 - 870.0	3.0	1.5 PM	20K0F1E

SUB-BAND PERFORMANCE	
700/800 MHz	764-870 MHz in all models

REBANDING Frequency Range for 700/800MHz in the CPS:

700 MHz:
Rx/Tx: 764.006250 to 775.993750
Tx Only: 794.006250 to 805.993750

800 MHz
Tx Only: 806.000000 to 824.993750
Rx/Tx: 851.000000 to 869.993750

[ASTRO® Digital XTS 1500 Catalog Sheet](#)

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

ASTRO Advanced Messaging Solution (AMS)

The ASTRO 25 Advanced Messaging Solutions is the latest messaging platform from Motorola Solutions and will replace ASTRO Text Messaging Service (TMS). As a complete end-to-end solution it leverages the core assets of ASTRO 25 IV&D/CID networks, ASTRO 25 radios, Integrated Command Center applications and Unified Network Services. The application allows responders to send/receive messages and run database queries from ASTRO 25 data

enabled portable radios, extending real time information access to the field so dispatchers and first responders can be more efficient and achieve safer outcomes.

Provides functional parity with TMS and leverages the PremierOne messaging services platform, offering multiple configurations to enhance and extend core messaging functionality that can include queries and dispatch notifications. Based upon the configuration chosen, ASTRO 25 Advanced Messaging Solution extends Computer Aided Dispatch (CAD) information beyond the vehicle to select ASTRO 25 Portable radios.

Many Public Safety agencies have experienced the benefits of messaging and sharing important information to/from the communication center (dispatch) and vehicles equipped with MDT's. With ASTRO 25 Advanced Messaging Solution we are extending that capability to responders when Outside the Vehicle.

ASTRO Advanced Messaging Solution will be available on XTS 1500 Front Display Portable radios.

Ordering ASTRO Advanced Messaging Solution for XTS 1500 Portable Requires:

- XTS 1500 Front Display
 - ASTRO Digital CAI Operation (Q806)
 - P25 Conventional (Q811)
 - Packet Data Interface (Q947)
- OR
- XTS 1500 Front Display
 - ASTRO Digital CAI Operation (Q806)
 - ASTRO Project 25 Trunking Software (Q574)
 - Packet Data Interface (Q947)

NOTE: There is no specific option to order for the Advanced Messaging Solution on the subscribers as the functionality is included in the Packet Data option. Also, the text messaging functionality carries a per-radio charge on the server side of \$50 (one time license fee to access messaging services) per radio. When adding query the fee is \$125 per radio. For additional ordering guidelines of the AMS feature which includes the server and radio license fees, please visit -

<http://ecat.comm.mot.com/ecat/pricebooks/dup/MCCP.htm>

Models			
Description	Nomenclature	APC	Price
Options			
Accessories			
Adapter			
Description	Nomenclature	APC	Price
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	BDN6676	742	\$52.50
<small>For use with 1, 2 & 3 wire earpiece.</small>			
PSM RF ADPT	RLN5918	372	\$36.00
Battery			
Description	Nomenclature	APC	Price
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	NNTN6263	453	\$137.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	NTN9857C	453	\$132.00
IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	NTN9858C	453	\$112.00
Battery Maintenance Systems			
Description	Nomenclature	APC	Price
NA FLEET MANAGEMENT LICENSE KEY	HKVN4036A	785	\$489.00
IMPRES BATTERY DATA READER	NNTN7392	785	\$250.00
<small>Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO,TRBO & APX adapter included)</small>			

FLEET MANAGEMENT CHRGR INTERFACE UNIT	NNTN7677A	291	\$80.00
Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.			

Bluetooth, Mission Critical Wireless

Description	Nomenclature	APC	Price
XTS BLUETOOTH ADAPTER	RMN5104A	742	\$179.00

Carrying Case(s)

Description	Nomenclature	APC	Price
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP Includes swivel belt loop and t-strap. 3.0" Snap NiCad or NiMH.	NNTN4115	271	\$60.00
LEATHER CASE W/HIGH ACTIVITY 2.5" SWIVEL BELT LOOP Includes swivel belt loop and t-strap. 2.5" Snap NiCad or NiMH.	NNTN4116	271	\$60.00
LEATHER CASE W/SNAP BELT LOOP & T-STRAP Includes snap belt loop and t-strap. For NiCad or NiMH.	NNTN4117	271	\$60.00
LEATHER T-STRAP, PLAIN ACTION SNAP	NTN8383	476	\$10.50
LEATHER T-STRAP, HARD ACTION SNAP WITH ADDITIONAL STRENGTH AT SNAP	NTN8384	476	\$10.50

Charger

Description	Nomenclature	APC	Price
IMPRES CHARGER	WPLN4111AR	785	\$165.00

Multi Unit Chargers

Description	Nomenclature	APC	Price
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	WPLN4108 R	785	\$788.00

Data Compiled 16-Feb-2015 using DUP and all prices in USD

**ASTRO® Digital XTS 2500 Portable Series
700/800MHz Band
Wide Area SmartZone® "Handie-Talkie™" Radio
Trunked Radio Systems**

XTS 2500 Last Order Entry Date : October 31, 2014

XTS 2500 Last Scheduled Ship Date: November 30, 2014

XTS 2500 Notification of Intent to Cancel Memo

**** Alternative products include the APX Series **– APX6000/
APX6000XE/ APX6000Li/APX4000**



******Please note that NEW version of Customer Programming Software (CPS) (Part # RVN4181/ RVN4186) is required for initial customer orders for XTS radios. ******

[Ship Card](#)

Features

All ASTRO Digital XTS 2500 packaged models include the following hardware features:

- 3 Programmable Side Buttons
- Orange Emergency Button
- 16 Position Mode Rotary Select Switch
- On/Off Volume
- Low Battery Alert Tone
- Antenna (Bandsplit and Type Dependent on Band Option)
- Noise Reduction Software
- 1 Top Mounted Programmable Three Position Concentric Switch
- Weather Sealed Universal Connector
- Bi-Color LED Indicator
- IMPRES Nickel Metal Hydride Battery (NTN9858)
- Detachable Belt Clip
- ASTRO 25
- Audio Gain Control

ASTRO Digital XTS 2500 Model I.5, II and III also include:

- DTMF Telephone Interconnect Capability (Model III ONLY)
- 6 Lines Alphanumeric Display (No Model I)
- Date and Time Stamp
- Hardware Encryption (Not Available on Model 1)
- Keypad Tone Mute (Model II and III ONLY)
- Large Navigational Keypad (Model II and III ONLY)
- Real Time Clock

All ASTRO Digital XTS 2500 Portables are part of the FLASHport program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent upon remaining within the same RF deck.)

****Please note that Models 1 and 2 are not available in the Asia Pacific Region****

Physiological Monitoring Solution

Physiological Monitoring is now available on the ASTRO 25 XTS5000 and XTS2500 portable radios. The Zephyr BioHarness™ BT couples the pioneering Smart Fabric sensor technology of the comfortable and unobtrusive BioHarness™ garment with the power and ubiquity of Bluetooth®. BioHarness™ BT enables the capture and transmission of comprehensive physiological data on the wearer exclusively via MOTOROLA ASTRO RADIOS – enabling genuine remote monitoring of human performance and condition in the real world.

The BioHarness™ BT can be used in a diverse range of areas including sports, defense, first responder and healthcare. Its professional-grade BioHarness™ system monitors conditions such as heat state, dehydration or injury by measuring vital signs including heart rate, breathing rate, skin temperature, posture and activity. Using the subject's voice radio, the BioHarness communicates to monitoring software designed to give real-time alerts and post-event analysis.

BioHarness™ BT can be worn in virtually any environment – from combat situations to the training field. It maintains performance under extreme activity. Offering fast, accurate collection and analysis of high-quality, in-depth data, BioHarness™ BT is the definitive product for remote physiological monitoring in all conditions.

[Zephyr Physiological Monitoring Ordering Guide](#)

General Information

The ASTRO Digital XTS 2500 Portable Line offers four different radio hardware models:

Hardware Model	Modes	Alphanumeric Display	Keypad	Navigation Pad
-----------------------	--------------	-----------------------------	---------------	-----------------------

		Lines/Characters		
		per Line		
ASTRO XTS 2500 Model I	48	None	None	No
ASTRO XTS 2500 Model 1.5	256	6/12/front mount	None	No
ASTRO XTS 2500 Model II	870	6/12/front mount	3 x 2	Yes
ASTRO XTS 2500 Model III	870	6/12/front mount	3 x 6	Yes

OPERATING MODES

ASTRO Digital XTS 2500 Radio Models are capable of operating in three different voice communication modes:

- Normal Analog (clear voice)
- 3.6KB ASTRO Digital (clear voice)
- 9.6KB ASTRO 25 Digital (clear voice)

The ASTRO Digital XTS 2500 Portable is capable of 48 modes when the programmable Concentric Top Mounted Switch is used for Zone Operation. The mode of operation is programmed on a channel-by-channel basis.

Please note that the XTS 2500 does NOT support FRED.

CHANNEL SPACING

There are no maximum frequency separation conditions that must be adhered to on the ASTRO Digital XTS2500 Portable Radio Series. Separation of frequencies can be as wide as the allowable sub-band per radio model with no degradation of any performance specifications. If an incorrect antenna is used, degraded performance may be experienced.

FIPS 140-2 Compliance

Encryption Modules equipped with AES are FIPS 140-2 compliant. Further information regarding FIPS 140-2 certification may be found using the following links:

[FIPS 140-2 Crypto Module Validation Program \(CMVP\)](#)

[NIST Cryptographic Module Validation Lists](#)

FLASHport® AFTERMARKET UPGRADES

The ASTRO Digital XTS 2500 Portable Series Radios are part of the FLASHport® Program. This means that ASTRO Digital XTS 2500 hardware models can be loaded with different software packages that provide the features and functionalities that your customers require. Three different hardware models are available in each band split.

The ASTRO Digital XTS 2500 portable can be upgraded electronically (via RS232 cable or USB cable are required for all software upgrades) in the field with new systems operation (contingent upon remaining within the same RF sub-band) by ordering upgrade kits.

FM INFORMATION

The XTS 2500 portable radio when properly equipped with options H223, Q393 or Q393SUBM are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, II, III, Groups C, D, E, F, G, T3 without encryption modules.

The XTS 2500 portable radio when properly equipped with options H223, Q393 or Q393SUBM are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, Class II, Class III, Groups D, F, G, T3C with encryption modules.

ASTRO TEXT MESSAGING SERVICE

ASTRO Text Messaging Service will be available on ASTRO 25 XTS 5000, XTS 2500 Portable radios and ASTRO 25 XTL 5000, XTL 2500 Mobile radios. Text Messaging Service (TMS) allows subscriber users to send and receive text messages to other subscribers or dispatch operators. Users can select messages and addresses from a predefined list or enter freeform text messages and addresses via the keypad. Text Messaging Service is available on ASTRO Trunked IV&D Systems and Subscribers. Subscribers must have version R09.00.00 or later of both Customer Programming Software (CPS) and Radio software.

For full Text Messaging functionality, including freeform text messaging and addressing, must order Model III XTS2500 portables. Model II versions support Limited Text Messaging functionality such as selecting predefined messages or addresses from a list programmed in the radio. Text messaging service is NOT supported on Model I Portables.

Ordering requirements for XTS 2500 Portable:

- Requires Model II or Model III XTS 2500
- Software Trunking 9600 Baud (Q574)
- Packet Data Interface (Q947)

NOTE: *There is no specific option to order for the Text Messaging Service on the subscribers as the functionality is included in the Packet Data option.*

RELATIVE RADIATED RECEIVE SENSITIVITY

The relative radiated receive sensitivity test (formerly referred to as self-quieters) measure the sensitivity from 764MHz to 870MHz in 12.5kHz steps. The radio is set to 25kHz channel mode. These measurements were taken in a shielded environment so that degraded sensitivity at discrete frequencies is known to be due to the radio's self-interference (as opposed to external interference.) The following list contains frequencies which were consistently found to have severely degraded performance on all measured radios: 856.3375, 857.7000, 860.7000, 862.2000, 863.7000, 867.3000, 864.0000.

UPDATED LIST OF FREQUENCIES NOT ALLOWED

When a Platform A radio is repaired with a Platform B RF board there will be additional frequencies that are not recommended to be used. The following list contains frequencies which were consistently found to have severely degraded performance on all measured radios (secure and non-secure):

VHF (136 to 174 MHz) 140.5, 144, 147.4475, 147.4575, 151.2*, 151.735*, 153.6*, 159.745, 162, 162.295, 165.9, 168*, 170.3975, 172.02

UHF Range 1 (380 to 470 MHz) 381.535, 384, 389.49, 393.195, 396*, 397.4375, 405.38, 413.33, 414*, 415.5, 417.77, 420*, 421.28, 429.23, 429.544, 431.1, 432*, 432.613, 437.18125, 442.344, 445.13125, 450*, 460.8, 466.92, 468*

UHF Range 2 (450 to 520 MHz) 450, 453.6*, 456*, 460.8*, 462, 466.91875, 468*, 469.425, 470.4*, 474, 475.5*, 480, 486*, 487.2*, 491.49375, 492, 497.705, 498, 502.2, 504, 510, 516, 516.065

700/800 MHz (764 – 776 MHz, 851 MHz – 870 MHz) 856.3375, 857.7000, 860.7000, 862.2000, 863.7000, 864.0000, 867.3000

Ordering Requirements

Ordering procedure is as follows:

- 1 H46UCH9PW7BN ASTRO XTS 2500 Portable**
- 1A Q574 9600 Trunking Digital Operation**
- 1B etc**

1. Order the ASTRO Digital XTS 2500 Portable Series as the main line item (H46UCH9PW7_N).
2. Each hardware model MUST be ordered with one Operating Mode. One Operating Mode Package MUST be ordered for each radio unit ordered. Choose between 9600 Trunking, 3600 Analog/ Digital Trunking, 3600 Analog or P25 Conventional Operation.

SOFTWARE FEATURES SUPPORTED BY				
Q574 Wide Area SmartZone / Q575 Wide Area SmartZone / Q443 Wide Area Analog SmartZone/ Q811 P25 Digital Conventional				
	"ASTRO Digital"(Q575) Non-Project 25 (3600 Baud)	"ASTRO Digital"(Q574) Project 25 (9600 Baud)	3600 Analog (Q443) Type II (3600 Baud)	P25 Conventional (Q811) Project 25 Conventional
RADIO WIDE FEATURES				
<i>Maximum Modes</i>				
ASTRO Digital XTS 2500 Model 1	16/48	16/48	16/48	16/48
ASTRO Digital XTS 2500 Model 1.5	256	256	256	256
ASTRO Digital XTS 2500 Model II & III	870	870	870	870
Analog and Digital Operation	Yes	Yes	Analog Only	Yes
12.5/20/25 KHz Programmable Channels	Yes	Yes	Yes	Yes
Secure Capable (Hardware Encryption Not Available on Model 1 Radios)	Yes	Yes	All but ADP	Yes
One Touch Operation	Yes	Yes	Yes	Yes
Real Time Clock	Yes	Yes	Yes	Yes
Surveillance Mode	Yes	Yes	Yes	Yes
Keypad Lock	Yes	Yes	Yes	Yes
Radio Lock	Yes	Yes	Yes	Yes
Smart (IMPRES) Battery	Yes	Yes	Yes	Yes
Radio Wide Transmit Inhibit	Yes	Yes	Yes	Yes
Time Out Timer	Yes	Yes	Yes	Yes
FLASHport	Yes	Yes	Yes	Yes
ANALOG CONVENTIONAL FEATURES				

Conventional Features are additional radio wide features beyond those specified above.				
CSQ/PL/DPL	Yes	Yes	Yes	Yes
Dual Priority Channel Scan	No	No	No	No
Repeater/Talkaround Operation	Yes	Yes	Yes	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes	Yes	Yes	Yes
Smart PTT	Yes	Yes	Yes	Yes
Monitor	Yes	Yes	Yes	Yes
DTMF Tone Generation	Yes	Yes	Yes	Yes
MDC-1200 Call Lists (Call Alert/Select Call)	Yes	Yes	Yes	Yes
MDC-1200 Call Alert Encode/Decode	Yes	Yes	Yes	Yes
MDC-1200 Emergency Call	Yes	Yes	Yes	Yes
MDC-1200 Voice Selective Call Encode/Decode	Yes	Yes	Yes	Yes
MDC-1200 Remote Monitor Decode	Decode Only	Decode Only	Decode Only	Decode Only
MDC-1200 Silent Emergency Alarm	Yes	Yes	Yes	Yes
MDC-1200 Selective Radio Inhibit Decode	Decode Only	Decode Only	Decode Only	Decode Only
MDC-1200 Radio Check Decode	Decode Only	Decode Only	Decode Only	Decode Only
MDC-1200 PTT-ID Decode/Encode	Yes	Yes	Yes	Yes
MDC Repeater Access	Yes	Yes	Yes	Yes
MDC Request to Talk (RTT)	Yes	Yes	Yes	Yes
MDC Status, Status Request, Message	Yes	Yes	Yes	Yes
DIGITAL CONVENTIONAL SIGNALING FEATURES				
These features are APCO Project 25 Conventional Interoperable Features when used in the ASTRO Digital CAI Mode (Q806).				
Unaddressed Voice Call	Yes	Yes	No	Yes
Talk Group Call	Yes	Yes	No	Yes
Group Call Alert™	Yes	Yes	No	Yes
Talk Group Identification (TGID)	Yes	Yes	No	Yes
Selective Call (Individual Voice Call)	Yes	Yes	No	Yes
PTT ID (Individual Identification)	Yes	Yes	Yes	Yes
Call Alert Encode/Decode	Yes	Yes	No	Yes
Emergency Alarm w/Channel Revert & Ack.	Yes	Yes	No	Yes
Telephone Interconnect	Yes	Yes	No	Yes
Selective Radio Inhibit	Yes	Yes	No	Yes
Radio Check	-	-	No	-
Status/Message	Yes	Yes	No	Yes
Trunking Type II Only Features				

Maximum Number of Trunked Systems-20	Yes	Yes	Yes	No
Talkgroup Calls	Yes	Yes	Yes	No
PTT ID (Digital Only)	Yes	Yes	Yes	Yes
Call Alert Encode/Decode	Yes	Yes	Yes	No
Dual Mode Scan	Yes	No	Yes	No
Failsoft by Talkgroup	Yes	Yes	Yes	No
Telephone Interconnect Encode/Decode	Yes	Yes	Yes	No
System Wide Call (Receive Only)	Yes	No	Yes	No
Selective Radio Inhibit	Yes	Yes	Yes	No
Priority Monitor Scan	Yes	Yes	Yes	No
Multi System Scan	Yes	Yes	Yes	N/A
Dynamic Regrouping	Yes	Yes	Yes	No
Status/Message	No	No	No	No
Private/Enhanced Conversation Encode/Decode	Yes	Yes	Yes	No
Radio Check	No	No	No	No
Remote Monitor/Radio Trace	Yes	No	Yes	Yes
Reprogram Request	No	No	No	No
SmartZone Trunking Type II Only Features				
Adaptive Power Control	Yes	Yes	Yes	No
Voice on Control	Future	Future	Future	No
SmartZone Automatic Site Registration	Yes	Yes	Yes	No
SmartZone RSSI Operation	Yes	Yes	Yes	No
SmartZone Preferred Site	Yes	Yes	Yes	No
SmartZone Forced Site Search	Yes	Yes	Yes	No
SmartZone Site Lock/Unlock	Yes	Yes	Yes	No
SmartZone Adjacent Control Channel OSW	Yes	Yes	Yes	No
Emergency Alarm Call Receive Indication	Yes	Yes	Yes	No

Legend:

Blue=Feature to be added in a Future Release

FCC Information

FCC IDENTIFIER: AZ489FT5804

Name of Grantee: Motorola Solutions, Inc.

Equipment Class: Licensed Non-Broadcast
Transmitter Held to Face

Notes: ASTRO DIGITAL XTS2500 PORTABLE

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
BH	80, 90, 90.210	764.0 - 870.0	3.0	1.5 PM	16K0F3E
BH	80, 90, 90.210	764.0 - 870.0	3.0	1.5 PM	11K0F3E
BH	80, 90, 90.210	764.0 - 870.0	3.0	1.5 PM	8K10F1E
BH	80, 90, 90.210	764.0 - 870.0	3.0	1.5 PM	8K10F1D
BH	80, 90, 90.210	764.0 - 870.0	3.0	1.5 PM	20K0F1E

REBANDING Frequency Range for 700/800MHz in the CPS:

700 MHz:

Rx/Tx: 764.006250 to 775.993750
 Tx Only: 794.006250 to 805.993750

800 MHz

Tx Only: 806.000000 to 824.993750
 Rx/Tx: 851.000000 to 869.993750

[XTS 2500 PORTABLE RADIO SPEC SHEET](#)

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ASTRO Advanced Messaging Solution (AMS)

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Provides functional parity with TMS and leverages the PremierOne messaging services platform, offering multiple configurations to enhance and extend core messaging functionality that can include queries and dispatch notifications. Based upon the configuration chosen, ASTRO 25 Advanced Messaging Solution extends Computer Aided Dispatch (CAD) information beyond the vehicle to select ASTRO 25 Portable radios.

Many Public Safety agencies have experienced the benefits of messaging and sharing important information to/from the communication center (dispatch) and vehicles equipped with MDT's. With ASTRO 25 Advanced Messaging Solution we are extending that capability to responders when Outside the Vehicle.

ASTRO Advanced Messaging Solution will be available on XTS 2500 Dual Display Portable radios. Advanced Messaging is NOT supported on XTS 2500 Top Display Portable radios.

Ordering ASTRO Advanced Messaging Solution for XTS 2500 Portable Requires:

- XTS 2500 Dual Display
- P25 Conventional (Q811)
- Packet Data Interface (Q947)

OR

- XTS 2500 Dual Display
- ASTRO Project 25 Trunking Software (Q574/Q575)
- Packet Data Interface (Q947)

NOTE: There is no specific option to order for the Advanced Messaging Solution on the subscribers as the functionality is included in the Packet Data option. Also, the text messaging functionality carries a per-radio charge on the server side of \$50 (one time license fee to access messaging services) per radio. When adding query the fee is \$125 per radio. For additional ordering guidelines of the AMS feature which includes the server and radio license fees, please visit -

<http://ecat.comm.mot.com/ecat/pricebooks/dup/MCCP.htm>

Models

Description	Nomenclature	APC	Price
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Options

Accessories

Enhancements

Description	Nomenclature	APC	Price
ZEPHYR PSM APX SYSTEM BUNDLE <small>Motorola System bundle includes Software CD, gateway programming cable, configuration block, documentation. 1 Required per laptop</small>	DDN1131	407	\$1,920.00
ZEPHYR CARRYING CASE	DDN1132	571	\$750.00
ZEPHYR PSM RSM BUNDLE XS-MED <small>Motorola PSM bundle includes 1 BT BioHarness, 1 side strap (XS - Med), 1 remote speaker microphone</small>	DDN1133	407	\$883.00
ZEPHYR PSM RSM BUNDLE MED-XL <small>Motorola PSM bundle includes 1 BT BioHarness, 1 side strap (med ? XL), 1 remote speaker</small>	DDN1134	407	\$883.00

microphone

ZEPHYR BT REMOTE SPEAKER MIC (RSM)	DDN1135	571	\$405.00
NONIN BT FINGER BLOOD OXIMITRY SPO2	DDN1136	571	\$735.00
Contains CNet Bluetooth V2.0 USB Adaptor containing drivers for wireless Bluetooth BP & SPO2 devices.			
ZEPHYR BIOSHIRT RESPONDER - XXL	DDN1137	407	\$186.00
ZEPHYR BIOSHIRT RESPONDER - XL	DDN1138	407	\$186.00
ZEPHYR BIOSHIRT RESPONDER - LARGE	DDN1139	407	\$186.00
ZEPHYR BIOSHIRT RESPONDER - MED	DDN1140	407	\$186.00
ZEPHYR RSM CONFIGURATION BLOCK	DDN1141	571	\$200.00
ZEPHYR BIOSHIRT RESPONDER - SMALL	DDN1146	407	\$186.00
ZEPHYR OMNISENSE SW CD & DOCUMENTS	DDN1149	407	\$1,500.00
ZEPHYR BLUETOOTH BIOMODULE	DDN1150	407	\$815.00
ZEPHYR 4 BAY CHARGER W USA PLUGPACK	DDN1151	571	\$220.00
ZEPHYR XTS RID	DDN1159	407	\$375.00
ZEPHYR PSM RID BUNDLE XS-MED	DDN1160	571	\$908.00
Motorola PSM bundle includes 1 BT BioHarness, 1 side strap (XS - Med), 1 RID			
ZEPHYR PSM RID BUNDLE MED-XL	DDN1161	571	\$908.00
Motorola PSM bundle includes 1 BT BioHarness, 1 side strap (med ? XL), 1 RID			

Adapter

Description	Nomenclature	APC	Price
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$52.50
PSM RF ADPT	RLN5918	372	\$36.00

Algorithm Kits

Description	Nomenclature	APC	Price
SECURE BOARD M1.5 AES Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4924A	205	\$811.00
SECURE BRD M1.5 DES,DES-XL,DES-OFB Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4925A	205	\$811.00
SECURE BOARD M1.5 ADP Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4926A	205	\$690.00
SECURE BOARD M2 AES Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4927A	205	\$811.00
SECURE BRD M2 DES,DES-XL,DES-OFB Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4928A	205	\$749.00
SECURE BOARD M2 ADP Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4929A	205	\$690.00
SECURE BOARD M3 AES Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4930A	205	\$811.00
SECURE BRD M3 DES,DES-XL,DES-OFB Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4931A	205	\$811.00
SECURE BOARD M3 ADP Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4932A	205	\$690.00

Antenna

Description	Nomenclature	APC	Price
ANTENNA, 806-870 MHZ 1/2 WAVELENGTH WHIP	NAF5037	476	\$35.75

	NAF5039	476	\$35.75
ANTENNA 1/2 WAVE 7" WHIP 700/800 MHZ	NAF5080	555	\$35.00

Battery

Description	Nomenclature	APC	Price
BATTERY IMPRES NIMH, 1700 MAH. INTRINSICALLY SAFE, RUGGEDIZED IMPRES batteries provide for automatic and adaptive reconditioning in IMPRES chargers, provide end of service life display, and real-time battery information when used with the IMPRES MUC with display.	NNTN4437B	453	\$147.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	NNTN6263	453	\$137.00
PREM BATT NICD 1525 MAH	NTN9815B	453	\$100.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	NTN9857C	453	\$132.00
IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	NTN9858C	453	\$112.00
BATTERY STD IP54 LIION 2700M2900T	PMNN4454AR	453	\$85.00

Battery Maintenance Systems

Description	Nomenclature	APC	Price
NA FLEET MANAGEMENT LICENSE KEY	HKVN4036A	785	\$489.00
IMPRES BATTERY DATA READER Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO,TRBO & APX adapter included)	NNTN7392	785	\$250.00
FLEET MANAGEMENT CHRGR INTERFACE UNIT Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$80.00

Belt Clip(s)

Description	Nomenclature	APC	Price
BELT CLIP 2 1/4"	HLN6853	271	\$11.50

Bluetooth, Mission Critical Wireless

Description	Nomenclature	APC	Price
XTS BLUETOOTH ADAPTER	RMN5104A	742	\$179.00

Cable(s)

Description	Nomenclature	APC	Price
CABLE- PROGRAMMING USB DOES NOT require Smart Rib. This cable MUST be ordered or the RKN4106 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No RIB Box required.	RKN4105	261	\$237.00
CABLE- PROGRAMMING, RS232 This cable MUST be ordered or the RKN4105 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No RIB Box required.	RKN4106	261	\$251.00

Carrying Case(s)

Description	Nomenclature	APC	Price
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP Includes swivel belt loop and t-strap. 3.0" Snap NiCad or NiMH.	NNTN4115	271	\$60.00
LEATHER CASE W/HIGH ACTIVITY 2.5" SWIVEL BELT LOOP Includes swivel belt loop and t-strap. 2.5" Snap NiCad or NiMH.	NNTN4116	271	\$60.00
LEATHER CASE W/SNAP BELT LOOP & T-STRAP Includes snap belt loop and t-strap. For NiCad or NiMH.	NNTN4117	271	\$60.00
LEATHER T-STRAP, PLAIN ACTION SNAP	NTN8383	476	\$10.50

LEATHER T-STRAP, HARD ACTION SNAP WITH ADDITIONAL STRENGTH AT SNAP	NTN8384	476	\$10.50
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Charger

Description	Nomenclature	APC	Price
WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER Wall Mount Bracket for IMPRES Multi-Unit Charger	NLN7967	476	\$21.00
CHARGER, 110 VOLT, US PLUG	NTN1667	476	\$100.00
VEHICULAR TRAVEL CHARGER Utilizes the cigarette lighter adapter. INCLUDES: mounting bracket, custom coil cord, and charger. Travel charger is best used and compatible with 2" belt clip.	RLN4884	785	\$95.00
IMPRES CHARGER	WPLN4111AR	785	\$165.00

Charger Line Cords

Description	Nomenclature	APC	Price
CHARGER, 220V LINE CORD Can be used on any of the single or multi unit chargers, or power supplies, to provide for domestic or international operation.	NTN7374	476	\$17.25

Commport Integrated Microphone/Receiver

Description	Nomenclature	APC	Price
COMMPORT WITH PALM PTT CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$419.00
COMMPORT WITH PTT ON RADIO ADAPTER CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00
COMMPORT WITH SNAP-ON SIDE PTT CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00

Earpieces

Description	Nomenclature	APC	Price
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE UL Approved	AARLN4885	742	\$25.00
EAR MICROPHONE FOR STANDARD NOISE LEVELS, BLACK Designed to pick up the voice through bone vibrations directly in the ear canal. Complete system consists of an Ear microphone and the corresponding Radio Interface Module (PTT or VOX). For noise levels up to 95 db. Requires Interface Module. *HT750, HT1250 & PR1500 - Intrinsically Safe (FM) Note: VOX is not recommended for trunking operation.	BDN6677	742	\$198.00
EARBUD, MINI MICROPHONE AND PTT *MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM).	BDN6780	742	\$67.00
EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE) *HT1000, XTS 3000, requires BDN6676 (3.5mm adapter jack) that attaches to the radio. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM) *XTS 5000 & XTS 2500 requires BDN6676. Intrinsically Safe (FM). Assembled (receive only) with volume control & standard urethane earloop. *PR1500 - requires BDN6676 - Intrinsically Safe (FM)	BDN6781	742	\$27.00
D-SHELL RX-ONLY EARPIECE(3.5MM)	PMLN4620A	742	\$19.00
BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	PMLN5464	742	\$395.00
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	RLN4941A	742	\$58.00
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	RLN6230A	742	\$32.00
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	RLN6241A	742	\$20.00
QUICK DISCONNECT ACOUSTIC TUBE	RLN6242A	742	\$7.90
EAR RCVR W/COIL CBL&3.5MM PLUG	WADN4190B	742	\$43.00

Headsets

Description	Nomenclature	APC	Price
HEADSET LIGHTWEIGHT Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)	NMN6245	785	\$149.00
MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM) Medium Weight Headset, Over the Head, with In-Line PTT - Noise Reduction Rating = 24dB	NMN6258	742	\$389.00
MED DUTY HEADSET, BEHIND-THE-HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM) Medium Weight Headset, Behind the Head, with In-Line PTT - Noise Reduction Rating = 24dB	NMN6259	742	\$425.00
HEAVY DUTY HEADSET PMLN5278B	PMLN5278B	742	\$439.00
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.	RMN4049	742	\$225.00
RUGGED TEMPLE TRANSDUCER HEADSET Features a noise cancelling boom microphone and In-Line PTT	RMN5049	742	\$340.00

Microphones

Description	Nomenclature	APC	Price
SPKR MIC NON-SUBMSBL, GPS RSM HMN4084 has the Earjack. Not compatible with Man-Down Side connector (NTN7660) or Clamshell Battery Holder (Q495, Q496, NTN9177, NTN9183). When used with XTS 2500, requires B version board. INCLUDES GPS RSM User guide (6881098C03).	HMN4084	372	\$350.00
REMOTE SPEAKER MICROPHONE, IP57	PMMN4038A	372	\$88.50
REMOTE SPEAKER MIC, NC	PMMN4045B	372	\$97.00
REMOTE SPEAKER MIC, RX-JACK	PMMN4051B	372	\$89.00
RSM W/MAN DOWN BUTTON	RMN5038	372	\$120.00

Multi Unit Chargers

Description	Nomenclature	APC	Price
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	WPLN4108 R	785	\$788.00
IMPRES MULTI CHARGER 230V UK 3 PIN PLUG NON DISPLAY	WPLN4110 R	785	\$788.00

Public Safety Microphone(s)

Description	Nomenclature	APC	Price
PSM STRAIGHT CABLE 30IN	RMN5072B	372	\$160.00
PSM STRAIGHT CABLE 24IN	RMN5073B	372	\$160.00
PSM STRAIGHT CABLE 18IN	RMN5074B	372	\$160.00

Surveillance

Description	Nomenclature	APC	Price
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE) 1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6664	742	\$40.00
EARPIECE RECEIVE ONLY WITH EXTRA LOUD EARPHONE - BEIGE (SINGLE WIRE) 1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.	BDN6665	742	\$42.00

EARPIECE RECEIVE ONLY WITH VOLUME CONTROL - BEIGE (SINGLE WIRE) BDN6666 742 \$53.00

1-Wire Receive-Only Surveillance Kit with Volume Control and Earpiece, Beige, 3.5mm Threaded.

*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.
 *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved.

*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.
 *PR1500 requires BDN6676 adapter. FM Approved

EARPIECE WITH MICROPHONE & PTT COMBINED - BEIGE (2 WIRE) BDN6667 742 \$114.00

2-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded.
 *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.
 *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.
 *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.
 *PR1500 requires BDN6676 adapter. FM Approved.

EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE) BDN6668 742 \$135.00

3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded
 *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.
 *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved.
 * EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.
 *PR1500 requires BDN6676 adapter. FM Approved.

EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE) BDN6669 742 \$118.00

2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded.
 *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.
 *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved.
 *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.
 *PR1500 requires BDN6676 adapter. FM Approved.

EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE) BDN6670 742 \$150.00

3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded.
 *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.
 *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved.
 *EX500 & EX600 XLS require PMLN4455 adapter.
 *PR1500 requires BDN6676 adapter. FM Approved.

EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE) BDN6726 742 \$40.00

1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded.
 *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.
 *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.
 *XTS 2500 & XTS 5000 require new adaptor. FM Approved.
 *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.
 *PR1500 requires BDN6676 adapter. FM Approved

EARPIECE RECEIVE ONLY WITH VOLUME CONTROL - BLACK (SINGLE WIRE) BDN6728 742 \$53.00

1-Wire Receive-Only Surveillance Kit with Volume Control and Earpiece, Black, 3.5mm Threaded.
 *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.
 *XTS 3000 requires BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.
 *XTS 2500 & XTS 5000 requires new adaptor. FM Approved.
 *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.
 *PR1500 requires BDN6676 adapter. FM Approved.

EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE) BDN6729 742 \$114.00

2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded.

*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.

*XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.

*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.

*PR1500 require BDN6676 adapter. FM Approved.

EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE) BDN6730 742 \$135.00

3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded.

*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.

*HT1000 & XTS 3000 require BDN6676 adapter.

*XTS 2500 & XTS 5000 require new adaptor. FM Approved.

*EX500 & EX600 XLS requires PMLN4455 adapter. FM Approved.

*PR1500 requires BDN6676 adapter. FM Approved.

EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE) BDN6731 742 \$118.00

2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded.

*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.

*HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved.

*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.

*PR1500 requires BDN6676 adapter. FM Approved.

EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE) BDN6732 742 \$150.00

3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded.

*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.

*HT1000 & XTS 3000 require BDN6676 adapter.

*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.

*PR1500 requires BDN6676 adapter. FM Approved.

UNDEFINED

Description	Nomenclature	APC	Price
ASSY,ENT/CONCTIV,HSET,98682H,BT HS 300	98682H	742	\$40.00
BATT CLAMSHELL, XTS2500	NNTN6686B	453	\$90.00

Customer Programming Software

Description	Nomenclature	APC	Price
SOFTWARE,CPS R20.00.00 ASTRO 25 PORTABLE	RVN4181AV	371	\$265.00

Data Compiled 16-Feb-2015 using DUP and all prices in USD

**XTS 2500 Portable Series
900 MHz Band**

XTS 2500 Last Order Entry Date : October 31, 2014

XTS 2500 Last Scheduled Ship Date: November 30, 2014

[XTS 2500 Notification of Intent to Cancel Memo](#)

**** Alternative product includes the APX Series **– [APX4000](#)**



******Please note that NEW version of Customer Programming Software (CPS) (Part # RVN4181/ RVN4186) is required for initial customer orders for XTS radios. ******

[Ship Card](#)

Features

All XTS 2500 packaged models include the following hardware features:

- 3 Programmable Side Buttons
- 1 Top Mounted Programmable Three Position Concentric Switch

- Orange Emergency Button
- 16 Position Mode Rotary Select Switch
- On/Off Volume
- Low Battery Alert Tone
- Antenna
- Noise Reduction Software
- Weather Sealed Universal Connector
- Bi-Color LED Indicator
- IMPRES Nickel Metal Hydride Battery (NTN9858)
- Detachable Belt Clip
- Audio Gain Control

XTS 2500 Model I.5 and III also include:

- DTMF Telephone Interconnect Capability (Model III ONLY)
- 4 Lines Alphanumeric Display
- Date and Time Stamp
- Keypad Tone Mute (Model III ONLY)
- Large Navigational Keypad (Model III ONLY)
- Manual Clock

All XTS 2500 Portables are part of the FLASHport program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent upon remaining within the same RF deck.). ****Please note that Models 1 and 2 are not available in the Asia Pacific Region****

Physiological Monitoring Solution

Physiological Monitoring is now available on the ASTRO 25 XTS5000 and XTS2500 portable radios. The Zephyr BioHarness™ BT couples the pioneering Smart Fabric sensor technology of the comfortable and unobtrusive BioHarness™ garment with the power and ubiquity of Bluetooth®. BioHarness™ BT enables the capture and transmission of comprehensive physiological data on the wearer exclusively via MOTOROLA ASTRO RADIOS – enabling genuine remote monitoring of human performance and condition in the real world.

The BioHarness™ BT can be used in a diverse range of areas including sports, defense, first responder and healthcare. Its professional-grade BioHarness™ system monitors conditions such as heat state, dehydration or injury by measuring vital signs including heart rate, breathing rate, skin temperature, posture and activity. Using the subject’s voice radio, the BioHarness communicates to monitoring software designed to give real-time alerts and post-event analysis.

BioHarness™ BT can be worn in virtually any environment – from combat situations to the training field. It maintains performance under extreme activity. Offering fast, accurate collection and analysis of high-quality, in-depth data, BioHarness™ BT is the definitive product for remote physiological monitoring in all conditions.

[Zephyr Physiological Monitoring Ordering Guide](#)

General Information

The XTS 2500 Portable Line offers two different radio hardware models:

Hardware Model	Modes	Alphanumeric Display	Keypad	Display	Navigation Pad		
		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Lines/Characters</td> </tr> <tr> <td style="padding: 2px;">per Line</td> </tr> </table>	Lines/Characters	per Line			
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XTS 2500 Model 1.5	256	6/12/front mount	None	Yes	No
XTS 2500 Model III	870	6/12/front mount	3 x 6	Yes	Yes

OPERATING MODES

XTS 2500 900 MHz Radio Models are capable of operating in Analog Conventional or Analog Trunking communication modes. The mode of operation is programmed on a channel-by-channel basis.

Please note that the XTS 2500 does NOT support FRED.

CHANNEL SPACING

There are no maximum frequency separation conditions that must be adhered to on the XTS2500 Portable Radio Series. Separation of frequencies can be as wide as the allowable sub-band per radio model with no degradation of any performance specifications. If an incorrect antenna is used, degraded performance may be experienced.

FLASHport® AFTERMARKET UPGRADES

The XTS 2500 Portable Series Radios are part of the FLASHport® Program. This means that XTS 2500 hardware models can be loaded with different software packages that provide the features and functionalities that your customers require.

The XTS 2500 portable can be upgraded electronically (via RS232 cable or USB cable are required for all software upgrades) in the field with new systems operation (contingent upon remaining within the same RF sub-band) by ordering upgrade kits.

RELATIVE RADIATED RECEIVE SENSITIVITY

The relative radiated receive sensitivity test (formerly referred to as self-quieters) measure the sensitivity from 896MHz to 940MHz in 12.5kHz steps. The radio is set to 25kHz channel mode. These measurements were taken in a shielded environment so that degraded sensitivity at discrete frequencies is known to be due to the radio's self-interference (as opposed to external interference.) The following list contains frequencies which were consistently found to have severely degraded performance on all measured radios: 936 MHz, 939.3 MHz

Ordering Requirements

Ordering procedure is as follows:

- 1 H46WCD9PW5BN XTS 2500 Portable**
- 1A Q443 3600 Analog Operation**
- 1B etc**

1. Order the XTS 2500 Portable Series as the main line item (H46WCD9PW5BN).
2. Each hardware model **MUST** be ordered with one Operating Mode. One Operating Mode Package **MUST** be ordered for each radio unit ordered. Choose between 3600 Analog, Trunking or Conventional Operation.

Legend:

Blue=Feature to be added in a Future Release

FCC Information

FCC IDENTIFIER: AZ489FT5849

Name of Grantee: Motorola Solutions, Inc.

Equipment Class: Licensed Non-Broadcast
Transmitter Held to Face

Notes: PORTABLE 2-WAY RADIO

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
	90	896.0 - 901.0	2.5	1.5 PM	11K0F3E
	90	935.0 - 940.0	2.5	1.5 PM	8K10F1E
	90	935.0 - 940.0	2.5	1.5 PM	8K10F1D
	90	935.0 - 940.0	2.5	1.5 PM	11K0F3E
	90	896.0 - 901.0	2.5	1.5 PM	8K10F1E
	90	896.0 - 901.0	2.5	1.5 PM	8K10F1D

[XTS 2500 PORTABLE RADIO SPEC SHEET](#)

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

ASTRO Advanced Messaging Solution (AMS)

The ASTRO 25 Advanced Messaging Solutions is the latest messaging platform from Motorola Solutions and will replace ASTRO Text Messaging Service (TMS). As a complete end-to-end solution it leverages the core assets of ASTRO 25 IV&D/CID networks, ASTRO 25 radios, Integrated Command Center applications and Unified Network Services. The application allows responders to send/receive messages and run database queries from ASTRO 25 data enabled portable radios, extending real time information access to the field so dispatchers and first responders can be more efficient and achieve safer outcomes.

Provides functional parity with TMS and leverages the PremierOne messaging services platform, offering multiple configurations to enhance and extend core messaging functionality that can include queries and dispatch notifications. Based upon the configuration chosen, ASTRO 25 Advanced Messaging Solution extends Computer Aided Dispatch (CAD) information beyond the vehicle to select ASTRO 25 Portable radios.

Many Public Safety agencies have experienced the benefits of messaging and sharing important information to/from the communication center (dispatch) and vehicles equipped with MDT's. With ASTRO 25 Advanced Messaging Solution we are extending that capability to responders when Outside the Vehicle.

ASTRO Advanced Messaging Solution will be available on XTS 2500 Dual Display Portable radios. Advanced Messaging is NOT supported on XTS 2500 Top Display Portable radios.

Ordering ASTRO Advanced Messaging Solution for XTS 2500 Portable Requires:

- XTS 2500 Dual Display

· P25 Conventional (Q811)

· Packet Data Interface (Q947)

OR

· XTS 2500 Dual Display

· ASTRO Project 25 Trunking Software (Q574/Q575)

· Packet Data Interface (Q947)

NOTE: There is no specific option to order for the Advanced Messaging Solution on the subscribers as the functionality is included in the Packet Data option. Also, the text messaging functionality carries a per-radio charge on the server side of \$50 (one time license fee to access messaging services) per radio. When adding query the fee is \$125 per radio. For additional ordering guidelines of the AMS feature which includes the server and radio license fees, please visit -

<http://ecat.comm.mot.com/ecat/pricebooks/dup/MCCP.htm>

Models

Description	Nomenclature	APC	Price
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Options

Accessories

Enhancements

Description	Nomenclature	APC	Price
ZEPHYR PSM APX SYSTEM BUNDLE Motorola System bundle includes Software CD, gateway programming cable, configuration block, documentation. 1 Required per laptop	DDN1131	407	\$1,920.00
ZEPHYR CARRYING CASE	DDN1132	571	\$750.00
ZEPHYR PSM RSM BUNDLE XS-MED Motorola PSM bundle includes 1 BT BioHarness, 1 side strap (XS - Med), 1 remote speaker microphone	DDN1133	407	\$883.00
ZEPHYR PSM RSM BUNDLE MED-XL Motorola PSM bundle includes 1 BT BioHarness, 1 side strap (med ? XL), 1 remote speaker microphone	DDN1134	407	\$883.00
ZEPHYR BT REMOTE SPEAKER MIC (RSM)	DDN1135	571	\$405.00
NONIN BT FINGER BLOOD OXIMITRY SPO2 Contains CNet Bluetooth V2.0 USB Adaptor containing drivers for wireless Bluetooth BP & SPO2 devices.	DDN1136	571	\$735.00
ZEPHYR BIOSHIRT RESPONDER - XXL	DDN1137	407	\$186.00
ZEPHYR BIOSHIRT RESPONDER - XL	DDN1138	407	\$186.00
ZEPHYR BIOSHIRT RESPONDER - LARGE	DDN1139	407	\$186.00
ZEPHYR BIOSHIRT RESPONDER - MED	DDN1140	407	\$186.00

ZEPHYR RSM CONFIGURATION BLOCK	DDN1141	571	\$200.00
ZEPHYR BIOSHIRT RESPONDER - SMALL	DDN1146	407	\$186.00
ZEPHYR OMNISENSE SW CD & DOCUMENTS	DDN1149	407	\$1,500.00
ZEPHYR BLUETOOTH BIOMODULE	DDN1150	407	\$815.00
ZEPHYR 4 BAY CHARGER W USA PLUGPACK	DDN1151	571	\$220.00
ZEPHYR XTS RID	DDN1159	407	\$375.00
ZEPHYR PSM RID BUNDLE XS-MED	DDN1160	571	\$908.00
Motorola PSM bundle includes 1 BT BioHarness, 1 side strap (XS - Med), 1 RID			
ZEPHYR PSM RID BUNDLE MED-XL	DDN1161	571	\$908.00
Motorola PSM bundle includes 1 BT BioHarness, 1 side strap (med ? XL), 1 RID			

Adapter

Description	Nomenclature	APC	Price
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$52.50
KEYLOAD ADAPTER The Surveillance/KEYLOAD ADAPTER NTN8613 allows XTS2500, XTS3000, XTS3500 and XTS5000 radios to be used with a ZMN6031, ZMN6032, ZMN6038 or ZMN6039 surveillance microphone and earpiece	NTN8613	476	\$89.25

Antenna

Description	Nomenclature	APC	Price
ANTENNA 896-941MHZ 1/2" WAVELENGTH WHIP	NAF5038	476	\$35.75
ANTENNA, 806-941MHZ 1/4 WAVELENGTH WHIP (STUBBY)	NAF5042	476	\$25.50

Battery

Description	Nomenclature	APC	Price
PREM BATT NICD 1525 MAH	NTN9815B	453	\$100.00
BATTERY STD IP54 LIION 2700M2900T	PMNN4454AR	453	\$85.00

Battery Maintenance Systems

Description	Nomenclature	APC	Price
NA FLEET MANAGEMENT LICENSE KEY	HKVN4036A	785	\$489.00
IMPRES BATTERY DATA READER Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO,TRBO & APX adapter included)	NNTN7392	785	\$250.00

Belt Clip(s)

Description	Nomenclature	APC	Price
BELT CLIP 2 1/4"	HLN6853	271	\$11.50
2" SPRING BELT CLIP For MTH800 - to be used in conjunction with bracket U/slot FTN6302	HLN9844	577	\$11.50

Belt Loops

Description	Nomenclature	APC	Price
CARRY CASE SHOULDER STRAP Adjustable Nylon Carrying Strap	NTN5243A	271	\$23.00

Bluetooth, Mission Critical Wireless

Description	Nomenclature	APC	Price
XTS BLUETOOTH ADAPTER	RMN5104A	742	\$179.00

Carrying Case(s)

	Nomenclature	APC	Price
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP Includes swivel belt loop and t-strap. 3.0" Snap NiCad or NiMH.	NNTN4115	271	\$60.00
LEATHER CASE W/HIGH ACTIVITY 2.5" SWIVEL BELT LOOP Includes swivel belt loop and t-strap. 2.5" Snap NiCad or NiMH.	NNTN4116	271	\$60.00
LEATHER CASE W/SNAP BELT LOOP & T-STRAP Includes snap belt loop and t-strap. For NiCad or NiMH.	NNTN4117	271	\$60.00
LEATHER T-STRAP, PLAIN ACTION SNAP	NTN8383	476	\$10.50
LEATHER T-STRAP, HARD ACTION SNAP WITH ADDITIONAL STRENGTH AT SNAP	NTN8384	476	\$10.50

Charger

Description	Nomenclature	APC	Price
CHARGER, 110 VOLT, US PLUG	NTN1667	476	\$100.00
IMPRES CHARGER	WPLN4111AR	785	\$165.00

Charger Line Cords

Description	Nomenclature	APC	Price
CHARGER, 220V LINE CORD Can be used on any of the single or multi unit chargers, or power supplies, to provide for domestic or international operation.	NTN7374	476	\$17.25

Commport Integrated Microphone/Receiver

Description	Nomenclature	APC	Price
COMMPORT WITH PALM PTT CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$419.00
COMMPORT WITH PTT ON RADIO ADAPTER CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00
COMMPORT WITH SNAP-ON SIDE PTT CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00

Earpieces

Description	Nomenclature	APC	Price
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE UL Approved	AARLN4885	742	\$25.00
EAR MICROPHONE FOR STANDARD NOISE LEVELS, BLACK Designed to pick up the voice through bone vibrations directly in the ear canal. Complete system consists of an Ear microphone and the corresponding Radio Interface Module (PTT or VOX). For noise levels up to 95 db. Requires Interface Module. *HT750, HT1250 & PR1500 - Intrinsicly Safe (FM) Note: VOX is not recommended for trunking operation.	BDN6677	742	\$198.00
FLEXIBLE EAR RECEIVER Flexible ear loop and speaker which rests external to the ear. REQUIRE BDN6676 (3.5mm adapter jack) that attaches to the radio. *HT1000 and XTS3000 requires BDN6676 (3.5mm adapter jack) that attaches to the radio. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS- Requires PMLN4455 - Intrinsicly Safe (FM)	BDN6719	742	\$35.00
EARBUD, MINI MICROPHONE AND PTT *MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsicly Safe (FM).	BDN6780	742	\$67.00
EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE) *HT1000, XTS 3000, requires BDN6676 (3.5mm adapter jack) that attaches to the radio. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsicly Safe (FM) *XTS 5000 & XTS 2500 requires BDN6676. Intrinsicly Safe (FM). Assembled (receive only) with volume control & standard urethane earloop. *PR1500 - requires BDN6676 - Intrinsicly Safe (FM))	BDN6781	742	\$27.00
D-SHELL RX-ONLY EARPIECE(3.5MM)	PMLN4620A	742	\$19.00
BONE CONDUCTION EAR MICROPHONE	PMLN5464	742	\$395.00

(XTS3000/5000/2500/1500/MT1500/PR1500)

RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	RLN4941A	742	\$58.00
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	RLN6230A	742	\$32.00
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	RLN6241A	742	\$20.00
QUICK DISCONNECT ACOUSTIC TUBE	RLN6242A	742	\$7.90
EAR RCVR W/COIL CBL&3.5MM PLUG	WADN4190B	742	\$43.00

Headsets

Description	Nomenclature	APC	Price
HEADSET LIGHTWEIGHT Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)	NMN6245	785	\$149.00
MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT- NRR=24DB-INTRIN (FM) Medium Weight Headset, Over the Head, with In-Line PTT - Noise Reduction Rating = 24dB	NMN6258	742	\$389.00
MED DUTY HEADSET, BEHIND-THE-HEAD, W/IN-LINE PTT-NRR= 24DB-INTRIN (FM) Medium Weight Headset, Behind the Head, with In-Line PTT - Noise Reduction Rating = 24dB	NMN6259	742	\$425.00
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.	RMN4049	742	\$225.00

Microphones

Description	Nomenclature	APC	Price
SPKR MIC NON-SUBMSBL, GPS RSM HMN4084 has the Earjack. Not compatible with Man-Down Side connector (NTN7660) or Clamshell Battery Holder (Q495, Q496, NTN9177, NTN9183). When used with XTS 2500, requires B version board. INCLUDES GPS RSM User guide (6881098C03).	HMN4084	372	\$350.00
GPS R2 SMART/NON-SUBM RSM FM GPS R2.0 RSM, 3.5mm audio jack XTS2500 compatibility requires B tanapa version hardware and radio host R10.00.00 or later XTS5000 compatibility requires radio host cost R06.01.00 or later. FM compliant	HMN4112A	372	\$350.00
GPS R2 SMART/SUBM RSM FM GPS R2.0 RSM, Submersible XTS2500 compatibility requires B tanapa version hardware and radio host R10.00.00 or later XTS5000 compatibility requires radio host cost R06.01.00 or later. FM compliant	HMN4113A	372	\$350.00
REMOTE SPEAKER MICROPHONE, IP57	PMMN4038A	372	\$88.50
REMOTE SPEAKER MIC, NC	PMMN4045B	372	\$97.00
REMOTE SPEAKER MIC, RX-JACK	PMMN4051B	372	\$89.00

Multi Unit Chargers

Description	Nomenclature	APC	Price
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	WPLN4108 R	785	\$788.00

Public Safety Microphone(s)

Description	Nomenclature	APC	Price
PSM STRAIGHT CABLE 30IN	RMN5072B	372	\$160.00
PSM STRAIGHT CABLE 24IN	RMN5073B	372	\$160.00
PSM STRAIGHT CABLE 18IN	RMN5074B	372	\$160.00

Surveillance

Description	Nomenclature	APC	Price
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EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE) 1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6664	742	\$40.00
EARPIECE RECEIVE ONLY WITH EXTRA LOUD EARPHONE - BEIGE (SINGLE WIRE) 1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6665	742	\$42.00
EARPIECE RECEIVE ONLY WITH VOLUME CONTROL - BEIGE (SINGLE WIRE) 1-Wire Receive-Only Surveillance Kit with Volume Control and Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6666	742	\$53.00
EARPIECE WITH MICROPHONE & PTT COMBINED - BEIGE (2 WIRE) 2-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6667	742	\$114.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE) 3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. * EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6668	742	\$135.00
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE) 2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6669	742	\$118.00
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE) 3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6670	742	\$150.00
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE) 1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved.	BDN6726	742	\$40.00

<p>*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved</p>			
RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	BDN6727	742	\$42.00
<p>1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved</p>			
EARPIECE RECEIVE ONLY WITH VOLUME CONTROL - BLACK (SINGLE WIRE)	BDN6728	742	\$53.00
<p>1-Wire Receive-Only Surveillance Kit with Volume Control and Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 3000 requires BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 requires new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved</p>			
EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	BDN6729	742	\$114.00
<p>2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 require BDN6676 adapter. FM Approved.</p>			
EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	BDN6730	742	\$135.00
<p>3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS requires PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>			
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	BDN6731	742	\$118.00
<p>2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>			
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	BDN6732	742	\$150.00
<p>3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>			

UNDEFINED

Description	Nomenclature	APC	Price
ASSY,ENT/CONCTIV,HSET,98682H,BT HS 300	98682H	742	\$40.00
GPS R2 SMART/NON-SUBM RSM	HMN4107A	372	\$350.00

Customer Programming Software

Description	Nomenclature	APC	Price
SOFTWARE,CPS R20.00.00 ASTRO 25 PORTABLE	RVN4181AV	371	\$265.00

Data Compiled 16-Feb-2015 using DUP and all prices in USD

XTS 5000 Last Order Entry Date : October 31, 2013

XTS 5000 Last Scheduled Ship Date: November 30, 2013

[XTS 5000 Notification of Intent to Cancel Memo](#)

**** Alternative products include the APX Series **—
[APX7000](#) / [APX7000XE](#) / [APX6000](#) / [APX6000XE](#)**

**ASTRO® Digital XTS 5000 Portable Series
700/800 MHz Band
SMARTNET® "Handie-Talkie™" Radio
Conventional/ Secure/ Trunked Radio Systems**



[Ship Card](#)

Features

All ASTRO Digital XTS 5000 packaged models include the following hardware features:

- 3 Programmable Side Buttons
- 1 Top Mounted Programmable Two Position Concentric Switch
- Orange Emergency Button
- 1 Top Mounted Programmable Three Position Toggle Switch

- Illuminated 16 Position Mode Rotary Select Switch
- Angled On/Off Volume
- Low Battery Alert Tone
- Antenna (Band split and Type Dependent on Band Option)
- Smart Battery Technology
- Noise Reduction Software
- Weather Sealed Universal Connector
- Bi-Color LED Indicator
- Nickel Metal Hydride Battery
- Detachable Belt Clip
- ASTRO 25
- Audio Gain Control

ASTRO

Digital XTS 5000 Model III also include:

- Full Keypad for Private Call
- 6 Lines Alphanumeric Display
- Date and Time Stamp
- Keypad Tone Mute
- Large Navigational Keypad
- Real Time Clock

All ASTRO Digital XTS 5000 Portables are part of the FLASHport® program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent upon remaining within the same RF deck.)

Physiological Monitoring Solution

Physiological Monitoring is now available on the ASTRO 25 XTS5000 and XTS2500 portable radios. The Zephyr BioHarness™ BT couples the pioneering Smart Fabric sensor technology of the comfortable and unobtrusive BioHarness™ garment with the power and ubiquity of Bluetooth®. BioHarness™ BT enables the capture and transmission of comprehensive physiological data on the wearer exclusively via MOTOROLA ASTRO RADIOS – enabling genuine remote monitoring of human performance and condition in the real world.

The BioHarness™ BT can be used in a diverse range of areas including sports, defense, first responder and healthcare. Its professional-grade BioHarness™ system monitors conditions such as heat state, dehydration or injury by measuring vital signs including heart rate, breathing rate, skin temperature, posture and activity. Using the subject’s voice radio, the BioHarness communicates to monitoring software designed to give real-time alerts and post-event analysis.

BioHarness™ BT can be worn in virtually any environment – from combat situations to the training field. It maintains performance under extreme activity. Offering fast, accurate collection and analysis of high-quality, in-depth data, BioHarness™ BT is the definitive product for remote physiological monitoring in all conditions.

[Zephyr Physiological Monitoring Ordering Guide](#)

General Information

The ASTRO Digital XTS 5000 Portable Line offers three different radio hardware models:

Hardware Model	Modes	Alphanumeric Display	Keypad	Navigation Pad		
		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: left;">Lines/Characters</td> </tr> <tr> <td style="text-align: left;">Per Line</td> </tr> </table>	Lines/Characters	Per Line		
Lines/Characters						
Per Line						

ASTRO XTS 5000 Model I	48	None	None	No
ASTRO XTS 5000 Model II	1000	6/12/front mount	3 x 2	Yes
ASTRO XTS 5000 Model III	1000	6/12/front mount	3 x 6	Yes

Operating Modes

ASTRO Digital XTS 5000 Radio Models are capable of operating in three different voice communication modes:

- Normal Analog (clear voice)
- 3.6KB ASTRO Digital (both clear and coded voice)
- 9.6KB ASTRO 25 Digital (both clear and coded voice) >

The mode of operation is programmed on a channel-by-channel basis. With the coded/clear switch set to the clear mode, the ASTRO Digital XTS 5000 radio is capable of transmitting clear analog voice or clear (unencrypted) ASTRO digital voice, depending on the channel programming. With the coded/clear switch set to the coded mode, the ASTRO Digital XTS 5000 radio will transmit ASTRO Digital Encryption depending on the channel programming. ASTRO digital encryption provides communications security. ASTRO Digital Encryption (operating in encrypted mode while also operating in the 3.6KB or 9.6 KB ASTRO mode) is capable of XL type encryptions; ASTRO Digital Encryption Does not operate with non-XL encryptions.

An Encryption Option is not required for either clear analog operation or clear ASTRO digital operation. Encryption can be ordered with the ASTRO Digital XTS 5000 radio either as a factory installed option or separate from the radio for later field installation. ASTRO Digital XTS 5000 radio functions include selected ASTRO digital signaling and digital speech coding.

Please note that the XTS5000 does NOT support FRED.

CHANNEL SPACING

There are no maximum frequency separation conditions that must be adhered to on the ASTRO Digital XTS5000 Portable Radio Series. Separation of frequencies can be as wide as the allowable sub-band per radio model with no degradation of any performance specifications. If an incorrect antenna is used, degraded performance may be experienced.

FLASHport AFTERMARKET UPGRADES

The ASTRO Digital XTS 5000 Portable Series Radios are part of the FLASHport Program. This means that ASTRO Digital XTS 5000 hardware models can be loaded with different software packages that provide the features and functionalities that your customers require. Three different hardware models are available in each band split.

System Enhancement Options can be loaded at the time of radio purchase or at a later date through the use of software field upgrades (a RS232 cable or USB cable are required for all software upgrades.) The ASTRO Digital XTS 5000 portable can be upgraded electronically in the field with new features in the current system or to new systems operation (contingent upon remaining within the same RF sub-band) by ordering upgrade kits.

Ordering Requirements

Ordering procedure is as follows...

- 1 H18UCH9PW N ASTRO XTS 5000 Portable
- 1A Q806 Digital Operation
- 1B H38 SmartZone® Operation
- 1C ETC

1. Order the ASTRO Digital XTS 5000 Portable Series as the main line item (H18UCH9PW7_N).
2. Each hardware model MUST be ordered with one Operating Mode. One Operating Mode for each radio unit ordered. Choose between Analog or Digital Operation.
3. Each Hardware model MUST be ordered with one System Software Package. One System Software Package for each radio unit ordered.
 - o The matrix below list available radio wide, conventional features, and standard trunking features for SMARTNET(H37) and SmartZone(H38) System Packages.
 - o The SmartZone features listed in the second matrix are available in the SmartZone(H38) package ONLY.
4. Select ANY desired System Enhancement Options
 - o System Enhancement Options can be loaded at the time of radio purchase or at a later date through the use of software field upgrades (a RS232 cable or USB cable are required for all software upgrades.)

COMMON SOFTWARE FEATURES SUPPORTED BY			
H37 "SMARTNET"/H38 "SmartZone"			
	"Analog Operation"(Q241)	"ASTRO Digital"(Q806)	"ASTRO Digital"(H38/Q806/Q361)
	Non-Project 25 (3600 Baud)	Non-Project 25 (3600 Baud)	Project 25 (9600 Baud)
RADIO WIDE FEATURES			
<i>Maximum Modes</i>			
ASTRO Digital XTS 5000 Model 1	16/48	16/48	16/48
ASTRO Digital XTS 5000 Model II & III	1000	1000	1000
Analog and Digital Operation	-	Yes	Yes
12.5/20/25 KHz Programmable Channels	Yes	Yes	Yes
Secure Capable	No	Yes	Yes
One Touch Operation	Yes	Yes	Yes
Real Time Clock	Yes	Yes	Yes
Surveillance Mode	Yes	Yes	Yes
Keypad Lock	Yes	Yes	Yes
Radio Lock	Yes	Yes	Yes
Smart Battery	Yes	Yes	Yes
Radio Wide Transmit Inhibit	Yes	Yes	Yes
Time Out Timer	Yes	Yes	Yes
FLASHport	Yes	Yes	Yes
ANALOG CONVENTIONAL FEATURES			
Conventional Features are additional radio wide features beyond those specified above.			

CSQ/PL/DPL	Yes	Yes	Yes
Dual Priority Channel Scan	Yes	Yes	Yes
Adaptive Power Control	Yes	Yes	Yes
Repeater/Talkaround Operation	Yes	Yes	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes	Yes	Yes
Smart PTT	Yes	Yes	Yes
Monitor	Yes	Yes	Yes
DTMF Tone Generation	Yes	Yes	Yes
DIGITAL CONVENTIONAL SIGNALING FEATURES			
These features are APCO Project 25 Conventional Interoperable Features when used in the ASTRO Digital CAI Mode (Q806).			
Unaddressed Voice Call	-	Yes	Yes
Talk Group Call	-	Yes	Yes
Group Call Alert™	-	Yes	Yes
Talk Group Identification (TGID)	-	Yes	Yes
Selective Call (Individual Voice Call)	-	Yes	Yes
Selective Call Decode (Individual Voice Call)	-	Yes	Yes
PTT ID (Individual Identification)	-	Yes	Yes
Call Alert Encode/Decode	-	Yes	Yes
Emergency Alarm w/Channel Revert & Ack.	-	Yes	Yes
Telephone Interconnect	-	Yes	Yes
Unlimited (Model III Only)	-	Future	Future
Selective Radio Inhibit	-	Yes	Yes
Radio Check	-	Yes	Yes
Status/Message	-	Yes	Yes
Trunking Type II Only Features			
Maximum Number of Trunked Systems-20	Yes	Yes	Yes
Talkgroup Calls	No	Yes	Yes
PTT ID (H14 option required)	Yes	Yes	Yes
Call Alert Encode/Decode	Yes	Yes	Yes
Dual Mode Scan	Yes	Yes	Yes
Failsoft by Talkgroup	Yes	Yes	Yes
Telephone Interconnect Encode/Decode	Yes	Yes	Yes
System Wide Call (Receive Only)	Yes	Yes	Yes
Selective Radio Inhibit	Yes	Yes	Yes
Priority Monitor Scan	Yes	Yes	Yes
Dynamic Regrouping	Yes	Yes	Yes
Status/Message	Yes	Yes	Status Only
Private/Enhanced Conversation Encode/Decode	Yes	Yes	Yes
Remote Monitor/Radio Trace	Yes	Yes	No

Reprogram Request	Future	Future	Future
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SOFTWARE FEATURES SUPPORTED BY			
H38 "SmartZone"			
	"Analog Operation" (Q241)	"ASTRO Digital" (Q806)	"ASTRO Digital" (H37/Q806/Q361)
		Non-Project 25 (3600 Baud)	Project 25 (9600 Baud)
Trunking Type II Only Features			
Voice on Control	Future	Future	Future
SmartZone Automatic Site Registration	Yes	Yes	Yes
SmartZone RSSI Operation	Yes	Yes	Yes
SmartZone Preferred Site	Yes	Yes	Yes
SmartZone Forced Site Search	Yes	Yes	Yes
SmartZone Site Lock/Unlock	Yes	Yes	Yes
SmartZone Adjacent Control Channel OSW	Yes	Yes	Yes
Emergency Alarm Call Receive Indication	Yes	Yes	Yes

LIMITED MDC FEATURES	
Offered in 6.3	
MDC PTT ID ENCODE/DECODE	YES
MDC Selective Radio Inhibit	Decode ONLY
MDC Call Alert	Yes
MDC Radio Check	Decode ONLY
MDC Voice Selective Call	Yes
MDC Remote Monitor	Decode ONLY
MDC Call Lists (Call Alert / Select Call)	Yes
MDC Emergency	Yes

CONVENTIONAL FACTORY PROGRAMMING

ASTRO Digital XTS 5000 portables ship without customer specific factory programming unless a programming options is specified. **Programming of the following frequencies are not allowed: 772.8000, 774.0000, 856.8000, and 864.0000 MHz**

FREQUENCY AND SQUELCH CODES

Although some models of the ASTRO Digital XTS 5000 are capable of 512 channels, the factory can accommodate the programming of only 128 continuous channels in any one radio. If the programming of more than 128 continuous channels is desired, field programming software must be used. **H477 ADD: Frequency & Squelch Data No Charge**

ZONED OPERATION

This option converts MODE-ONLY ASTRO Digital XTS 5000 portables to Zone Operation radios. A maximum of 16 RX and TX pairs can be placed into a zone. There is a maximum of three zones (48 modes) on the "I" Model, with zone operation programmed to the programmable top mounted two-position concentric switch. There is a maximum of 16 zones (512 modes) on the "II" and "III" models, and the zones will be programmed to be selected from the keypad. The factory can only accommodate the programming of only 128 continuous channels consisting of any combination of zones and channels and minimum of 32 channels with two zones on the "II" models. **When you ordering H477, H371 must be ordered. H371 ADD: ASTRO Digital XTS 5000 Zone Operation No Charge**

PROJECT 25 ENCRYPTION

When ordering any of the Encryption Algorithm:

- **Must** order the Encryption UCM Hardware (Q159)
 - The DES-OFB and AES encryptions offered are compliant with digital Project 25 standards and does not support analog encryption operation.
 - **Requires** the ASTRO Digital CAI (Q806) to operate the DES-OFB and AES encryption.
- If ordering a Dual Encryption:
 - The non-OFB encryption (XL versions) can be operated in either analog , or CAI digital mode, but will not be Project 25 compliant.
 - **Requires** the Multikey (H869).
- When used in CAI mode, the non-OFB Encryption will not be Project 25 compliant.
 - Encryption UCM Hardware (Q159) module may be ordered without an Encryption Algorithm for later upgrade in the field.

FIELD INSTALLED PROJECT 25 ENCRYPTION

The DES-OFB and AES encryptions offered are compliant with Project 25 standards. Operation of DES-OFB and/or AES encryption requires the ASTRO Digital CAI (Q806) option. Radios can be upgraded via FLASHport to CAI operation.

- If ordering a Dual Encryption:
 - The non-OFB encryption can be operated in analog or CAI mode (only XL versions operate in either digital mode).
 - **Requires** the Multikey (H869).
- When used in the CAI mode, the non-OFB encryption will not be Project 25 compliant.

FIPS 140-2 COMPLIANCE

Encryption Modules equipped with AES are FIPS 140-2 compliant. Further information regarding FIPS 140-2 certification may be found using the following links:

[FIPS 140-2 Crypto Module Validation Program \(CMVP\)](#)

[NIST Cryptographic Module Validation Lists](#)

FM INFORMATION

The XTS 5000 portable radio when properly equipped with options H223CC, H223RUGDCE, Q393AN, and Q393RUGDAR are Factory Mutual (FM/CSA) Approved as intrinsically safe for use in Class I, II, III, Division 1, Group C, D, E, F, and G and Nonincendive Class I, Division 2, Group A, B, C and D, when ordered without encryption modules.

The XTS 5000 portables equipped with UCM encryption modules and options H223CD, H223RUGDCF, Q393AP, and Q393RUGDAQ are FM Approved as Intrinsically Safe for use in Class I, II, III, Division 1, Group D, F, G and Nonincendive for use in Class I, Div 2, Group A, B, C, D only.

Type 1 is not offered on either the 700/800 or UHF R2 bands. XTS 5000 FM/CSA approved portable radio models installed with Type 1 encryption module (Q374 or Q400), are intrinsically safe for use in the Nonincendive, Class I, Division 2, Groups A, B, C, D, when used with Motorola FM/CSA approved battery options Q393AV and Q393RUGDAW or H223CP and H223RUGDCW.

ASTRO Text Messaging Service

ASTRO Text Messaging Service will be available on ASTRO 25 XTS 5000, XTS 2500 Portable radios and ASTRO 25 XTL 5000, XTL 2500 Mobile radios. Text Messaging Service (TMS) allows subscriber users to send and receive text messages to other subscribers or dispatch operators. Users can select messages and addresses from a predefined list or enter freeform text messages and addresses via the keypad. Text Messaging Service is available on ASTRO Trunked IV&D Systems and Subscribers. Subscribers must have version R09.00.00 or later of both Customer Programming Software (CPS) and Radio software .

For full Text Messaging functionality, including freeform text messaging and addressing, must order Model III XTS5000 portables. Model II versions support Limited Text Messaging functionality such as selecting predefined messages or addresses from a list programmed in the radio. Text messaging service is NOT supported on Model I Portables.

Ordering requirements for XTS 5000 Portable:

- Requires Model II or Model III XTS 5000
- ASTRO Digital CAI Operation (G806)
- SmartZone Operation (H38)
- ASTRO Project 25 Trunking Software (Q361)
- Packet Data Interface (Q947)

NOTE: *There is no specific option to order for the Text Messaging Service on the subscribers as the functionality is included in the Packet Data option.*

Outdoor Personnel Location Global Positioning Satellite (GPS) Feature

The personnel outdoor location tracking GPS feature enables a dispatcher the ability to locate on-foot patrols and out of the vehicle officers who are involved in life threatening situations. The radio user's GPS position information is sent over the ASTRO 25 Integrated Voice & Data (IV&D) network and is delivered to the dispatch operator using a third party mapping display application at the dispatch center (*Mapping Application is not yet available through Motorola at this time, however an Application Developers Tool Kit is available for 3rd party vendors to use to modify existing applications. See link below for more details.*)

This capability is now available on ASTRO 25 Conventional IV&D Systems and ASTRO 25 Trunking IV&D Systems on XTS 5000 Models I, II, III and Ruggedized with appropriate radio software (see below).

Required equipment for operating in ASTRO 25 Conventional IV&D and ASTRO 25 Trunking IV&D Systems is as follows:

	ASTRO 25 Conventional IV&D	ASTRO 25 Trunking IV&D
Radio Software	Version R09.00.00 or later	Version R09.00.00
Customer Programming Software (CPS)	Version R09.00.00 or later (RVN4181)	Version R09.00.00 or later (RVN4181)
ASTRO CAI operation	Q806	Q806

System Enhancement Software	H35 (or H37, H38 in Conventional Mode)	H38
ASTRO Project 25 Trunking Software		Q361
GPS Remote Speaker Microphone/GPS Remote Speaker Microphone with Earjack	HMN4080 or HMN4084	HMN4080 or HMN4084

For fielded XTS 5000 Portables that are already Conventional IMBE Digital Enabled or Trunking IMBE Digital Enabled, see FLASHport upgrade Price Pages to order a software refresh to get the GPS enabled software.

During normal operation the radio's battery capacity will be reduced by 10% to 16% based on 1 location update per minute.

NOT COMPATIBLE with Man -Down Side Connector (NTN7660), Clamshell Battery Holder (Q495, Q496, NTN9177, NTN9183).

For further information refer regarding System Requirements, go to the Location Solutions Price Page at: <http://ecat.comm.mot.com/ecat/pricebooks/dup/ALOCATION.htm>

NOTE:
The GPS technology uses radio signals from earth orbiting satellites, to establish the location coordinates, maximizing your view of clear, unobstructed sky is essential for optimum performance. Where adequate signals from multiple satellites are not available, (usually because you cannot establish a view of a wide area of the sky), the GPS feature of your GPS RSM WILL NOT WORK. Such situations include but are not limited to:

- *In underground locations*
- *Inside of buildings, trains, or other covered vehicles*
- *Under any other metal or concrete roof or structure*
- *Between tall buildings or under dense tree-cover*

PUBLIC SAFETY SPEAKER MICROPHONES (PSM)

The RF switch has been removed from the XTS Radio to provide cost savings on the model. Therefore, the EXTERNAL RF SWITCH must be ORDERED and then ATTACHED to the radio in order for the PSM to operate. A wrench tool must be used to place the RF switch. These kits must be ordered separately. The RF switch and microphones are FM approved.

FCC Information

FCC IDENTIFIER: AZ489FT5806

Name of Grantee: Motorola Solutions, Inc.

Equipment Class: **Licensed Non-Broadcast Transmitter
Held to Face**

Notes: **Astro Digital XTS5000 Hand Held
Portable Radio**

Modular Type: **Does not apply**

Frequency Output Frequency Emission

Grant Notes	FCC Rule Parts	Range (MHZ)	Watts	Tolerance	Designator
BH	90R, 90S	764.0 - 870.0	3.0	1.5 PM	16K0F3E
BH	90R, 90S	764.0 - 870.0	3.0	1.5 PM	11K0F3E
BH	90R, 90S	764.0 - 870.0	3.0	1.5 PM	8K10F1E
BH	90R, 90S	764.0 - 870.0	3.0	1.5 PM	8K10F1D
BH	90R, 90S	764.0 - 870.0	3.0	1.5 PM	20K0F1E

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

[XTS 5000 Catalog Sheet](#)

[XTS Vehicular Adapter \(XTVA\)](#)

Here is a link for the XTS 5000 notation. <http://www.motorola.com/cgiss/portables/xts5000.htm>.

ASTRO Advanced Messaging Solution (AMS)

The ASTRO 25 Advanced Messaging Solutions is the latest messaging platform from Motorola Solutions and will replace ASTRO Text Messaging Service (TMS). As a complete end-to-end solution it leverages the core assets of ASTRO 25 IV&D/CID networks, ASTRO 25 radios, Integrated Command Center applications and Unified Network Services. The application allows responders to send/receive messages and run database queries from ASTRO 25 data enabled portable radios, extending real time information access to the field so dispatchers and first responders can be more efficient and achieve safer outcomes.

Provides functional parity with TMS and leverages the PremierOne messaging services platform, offering multiple configurations to enhance and extend core messaging functionality that can include queries and dispatch notifications. Based upon the configuration chosen, ASTRO 25 Advanced Messaging Solution extends Computer Aided Dispatch (CAD) information beyond the vehicle to select ASTRO 25 Portable radios.

Many Public Safety agencies have experienced the benefits of messaging and sharing important information to/from the communication center (dispatch) and vehicles equipped with MDT's. With ASTRO 25 Advanced Messaging Solution we are extending that capability to responders when Outside the Vehicle.

ASTRO Advanced Messaging Solution will be available on XTS 5000 Dual Display Portable radios. Advanced Messaging is NOT supported on XTS 5000 Top Display Portable radios.

Ordering ASTRO Advanced Messaging Solution for XTS 5000 Portable Requires:

- XTS 5000 Dual Display
- ASTRO Digital CAI Operation (Q806)
- P25 Conventional (H35)

- Packet Data Interface (Q947)

OR

- XTS 5000 Dual Display
- ASTRO Digital CAI Operation (Q806)
- SmartZone Operation (H38)
- ASTRO Project 25 Trunking Software (Q361)
- Packet Data Interface (Q947)

NOTE: There is no specific option to order for the Advanced Messaging Solution on the subscribers as the functionality is included in the Packet Data option. Also, the text messaging functionality carries a per-radio charge on the server side of \$50 (one time license fee to access messaging services) per radio. When adding query the fee is \$125 per radio. For additional ordering guidelines of the AMS feature which includes the server and radio license fees, please visit -

<http://ecat.comm.mot.com/ecat/pricebooks/dup/MCCP.htm>

[XTS 5000 - INTENT TO CANCEL MEMO](#)

Models

Description	Nomenclature	APC	Price
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Options

Accessories

Adapter

Description	Nomenclature	APC	Price
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$52.50

Antenna

Description	Nomenclature	APC	Price
ANTENNA	8505241U11	001	\$35.00
ANTENNA, 806-870 MHZ 1/2 WAVELENGTH WHIP	NAF5037	476	\$35.75

Battery

Description	Nomenclature	APC	Price
IMPRES NIMH 1800 MAH BATT	NNTN4435B	453	\$123.00
BATT 1700 MAH FM NIMH	NNTN4436B	453	\$142.00
BATTERY IMPRES NIMH, 1700 MAH. INTRINSICALLY SAFE,	NNTN4437B	453	\$147.00

RUGGEDIZED

IMPRES batteries provide for automatic and adaptive reconditioning in IMPRES chargers, provide end of service life display, and real-time battery information when used with the IMPRES MUC with display.

BATTERY IMPRES LI-ION 4150 MAH	NNTN6034A	453	\$155.00
BATTERY IMPRES LI-ION 3950MAH FM RUGGED	NNTN7453A	453	\$171.00
Li-Ion 3950mAh, IMPRES, Intrinsically Safe, Ruggedized			
BAT HOLDER CLAMSHELL BLK	NTN9177	453	\$66.00
Portable radio software version R07.00.02 or greater is required for use with this product. Clamshell battery requires 12 "AA" alkaline batteries to operate portable. "AA" batteries are NOT included. This battery is NOT FM approved or intrinsically safe. This battery will automatically reduce the radio's RF power to 2watts.			
BAT HOLDER CLAMSHELL ORG	NTN9183	453	\$50.00
Portable radio software version R01.20 or greater is required for use with this product. Clamshell battery requires 12 "AA" alkaline batteries to operate portable. "AA" batteries are NOT included. This battery is NOT FM approved or intrinsically safe. This battery will automatically reduce the radio's RF power to 2watts.			
BATTERY IMPRES LION 2750 MAH	NTN9862C	453	\$150.00
IMPRES batteries provide for automatic and adaptive reconditioning in IMPRES chargers, provide end of service life display, and real-time battery information when used with the IMPRES MUC with display.			
BATT STD IP54 LIION4000M4200T	PMNN4449AR	453	\$99.75
BATTERY 3000 MAH FM NIMH	RNN4007 R	453	\$150.00
Guaranteed for 70% of capacity 1 year, only Compatible with NTN1177/4796, 1168 and all TRI-Chem Chargers.			

Battery Maintenance Systems

Description	Nomenclature	APC	Price
NA FLEET MANAGEMENT LICENSE KEY	HKVN4036A	785	\$489.00
IMPRES BATTERY DATA READER	NNTN7392	785	\$250.00
Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO,TRBO & APX adapter included)			

Belt Clip(s)

Description	Nomenclature	APC	Price
3" PLASTIC BELT CLIP ATTACHMENT	HLN6875A	721	\$12.00

Belt Loops

Description	Nomenclature	APC	Price
3 INCH LEATHER SWIVEL BELT LOOP	NTN8040	476	\$12.00

Bluetooth, Mission Critical Wireless

Description	Nomenclature	APC	Price
MISSION CRITICAL WIRELESS ADAPTER	PMLN5792A	742	\$99.00
Mission Critical Wireless Adapter is not intrinsically safe nor approved for use in Hazardous Locations			
XTS BLUETOOTH ADAPTER	RMN5104A	742	\$179.00

Carrying Case(s)

Description	Nomenclature	APC	Price
2.5 INCH LEATHER SWIVEL BELT LOOP	NTN8039	476	\$12.00
For use only with the High Activity Leather Swivel Snap Carry Cases.			
HIGH-ACTIVITY SWIVEL LEATHER CASE	NTN8380C	476	\$60.00
LEATHER CASE WITH BELT LOOP, D-RINGS AND T-STRAP	NTN8382B	476	\$51.00
LEATHER T-STRAP, PLAIN ACTION SNAP	NTN8383	476	\$10.50
LEATHER T-STRAP, HARD ACTION SNAP WITH ADDITIONAL STRENGTH AT SNAP	NTN8384	476	\$10.50
HIGH-ACTIVITY SWIVEL LEATHER CASE	NTN8385	476	\$60.00
Includes swivel belt loop and t-strap. 2.5" Snap NiCad or NiMH.			

HIGH-ACTIVITY SWIVEL LEATHER CASE Includes swivel belt loop and t-strap. 3.0" Snap NiCad or NiMH.	NTN8386	476	\$60.00
LEATHER CARRY CASE WITH BELT LOOP, D-RINGS AND T-STRAP Includes snap belt loop/t-strap. For NiCad or NiMH	NTN8387	476	\$51.00
HIGH-ACTIVITY NYLON CASE WITH BELT LOOP AND T-STRAP	NTN8725	476	\$51.00
LEATHER CASE WITH BELT LOOP. FOR CLAMSHELL BATTERY	NTN9184	476	\$67.00
ACCESSORY KIT, FIREMAN'S RADIO STRAP	RLN6486A	271	\$37.00
ACCESSORY KIT, FIREMAN'S RADIO STRAP, XL	RLN6487A	271	\$40.00
ACCESSORY KIT, ANTI-SWAY STRAP	RLN6488A	271	\$15.00

Charger

Description	Nomenclature	APC	Price
CHARGER, 110 VOLT, US PLUG	NTN1667	476	\$100.00
VEHICULAR MOUNTING BRACKET AND HARD WIRE CABLE FOR SINGLE-UNIT For use with single unit Motorola Conditioning Chargers. INCLUDES: mounting hardware and fused hard wire cable.	RLN4814	785	\$35.00
VEHICULAR TRAVEL CHARGER Utilizes the cigarette lighter adapter. INCLUDES: mounting bracket, custom coil cord, and charger. Travel charger is best used and compatible with 2" belt clip.	RLN4884	785	\$95.00
IMPRES CHARGER	WPLN4111AR	785	\$165.00

Commport Integrated Microphone/Receiver

Description	Nomenclature	APC	Price
COMMPORT WITH PALM PTT CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$419.00
COMMPORT WITH PTT ON RADIO ADAPTER CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00
COMMPORT WITH SNAP-ON SIDE PTT CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00

Earpieces

Description	Nomenclature	APC	Price
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE UL Approved	AARLN4885	742	\$25.00
FLEXIBLE EAR RECEIVER Flexible ear loop and speaker which rests external to the ear. REQUIRE BDN6676 (3.5mm adapter jack) that attaches to the radio. *HT1000 and XTS3000 requires BDN6676 (3.5mm adapter jack) that attaches to the radio. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS- Requires PMLN4455 - Intrinsically Safe (FM)	BDN6719	742	\$35.00
EARBUD, MINI MICROPHONE AND PTT *MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM).	BDN6780	742	\$67.00
EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE) *HT1000, XTS 3000, requires BDN6676 (3.5mm adapter jack) that attaches to the radio. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM) *XTS 5000 & XTS 2500 requires BDN6676. Intrinsically Safe (FM). Assembled (receive only) with volume control & standard urethane earloop. *PR1500 - requires BDN6676 - Intrinsically Safe (FM))	BDN6781	742	\$27.00
BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	PMLN5464	742	\$395.00
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	RLN4941A	742	\$58.00
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	RLN6230A	742	\$32.00
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	RLN6241A	742	\$20.00
QUICK DISCONNECT ACOUSTIC TUBE	RLN6242A	742	\$7.90
EAR RCVR W/COIL CBL&3.5MM PLUG	WADN4190B	742	\$43.00

Headsets

Description	Nomenclature	APC	Price
HEADSET LIGHTWEIGHT Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)	NMN6245	785	\$149.00
MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT-NRR=24DB- INTRIN (FM) Medium Weight Headset, Over the Head, with In-Line PTT - Noise Reduction Rating = 24dB	NMN6258	742	\$389.00
MED DUTY HEADSET, BEHIND-THE-HEAD, W/IN-LINE PTT-NRR= 24DB- INTRIN (FM) Medium Weight Headset, Behind the Head, with In-Line PTT - Noise Reduction Rating = 24dB	NMN6259	742	\$425.00
HEAVY DUTY HEADSET PMLN5278B	PMLN5278B	742	\$439.00
HEAVY-DUTY HEADSET	RLN6477A	742	\$335.00
MT Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 24 dB			
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in- line PTT.	RMN4049	742	\$225.00

Microphones

Description	Nomenclature	APC	Price
GPS R2 SMART/NON-SUBM RSM FM GPS R2.0 RSM, 3.5mm audio jack XTS2500 compatibility requires B tanapa version hardware and radio host R10.00.00 or later XTS5000 compatibility requires radio host cost R06.01.00 or later. FM compliant	HMN4112A	372	\$350.00
GPS R2 SMART/SUBM RSM FM GPS R2.0 RSM, Submersible XTS2500 compatibility requires B tanapa version hardware and radio host R10.00.00 or later XTS5000 compatibility requires radio host cost R06.01.00 or later. FM compliant	HMN4113A	372	\$350.00
REMOTE SPEAKER MICROPHONE, IP57	PMMN4038A	372	\$88.50
REMOTE SPEAKER MIC, NC	PMMN4045B	372	\$97.00
REMOTE SPEAKER MIC, RX-JACK	PMMN4051B	372	\$89.00
THROAT MICROPHONE	RLN6478A	742	\$270.00
COMMANDERII REMOTE SPEAKER MICROPHONE W/OUT CHANNEL KNOB, SUBMERSIBLE	RMN5066B	372	\$215.00
COMMANDERII REMOTE SPEAKER MICROPHONE W/OUT CHANNEL KNOB, EARJACK	RMN5067B	372	\$150.00
COMMANDERII REMOTE SPEAKER MICROPHONE W/ CHANNEL KNOB, SUBMERSIBLE	RMN5088B	372	\$215.00
COMMANDERII REMOTE SPEAKER MICROPHONE W/ CHANNEL KNOB, EARJACK	RMN5089B	372	\$150.00

Multi Unit Chargers

Description	Nomenclature	APC	Price
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	WPLN4108 R	785	\$788.00

Public Safety Microphone(s)

Description	Nomenclature	APC	Price
PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 30 IN PSM does not have emergency switch. For XTS 5000 UHF R1 use only approved antennas NAE6547 and NAE6549.	NMN6247	476	\$155.00
PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 24 IN PSM does not have emergency switch. For XTS 5000 UHF R1 use only approved antennas NAE6547 and NAE6549.	NMN6250	476	\$155.00
PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 18 IN	NMN6251	476	\$155.00

PSM does not have emergency switch. For XTS 5000 UHF R1 use only approved antennas NAE6547 and NAE6549.

RF ANTENNA SWITCH NTN8327 476 \$140.00

The RF Switch has been removed from the XTS radio to provide cost savings on the model. Therefore, the external RF switch must be attached to the radio in order for the PSM to operate. A wrench tool must be used to place the RF switch. These kits must be ordered separately. REQUIRES ANTENNA. The RF switch and mics are FM approved.

Surveillance

Description	Nomenclature	APC	Price
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE) 1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6664	742	\$40.00
EARPIECE RECEIVE ONLY WITH EXTRA LOUD EARPHONE - BEIGE (SINGLE WIRE) 1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6665	742	\$42.00
EARPIECE RECEIVE ONLY WITH VOLUME CONTROL - BEIGE (SINGLE WIRE) 1-Wire Receive-Only Surveillance Kit with Volume Control and Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6666	742	\$53.00
EARPIECE WITH MICROPHONE & PTT COMBINED - BEIGE (2 WIRE) 2-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6667	742	\$114.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE) 3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. * EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6668	742	\$135.00
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE) 2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6669	742	\$118.00
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE) 3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6670	742	\$150.00
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE) 1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with	BDN6726	742	\$40.00

3.5mm audio jack, audio adapter is not required.

*XTS 2500 & XTS 5000 require new adaptor. FM Approved.

*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.

*PR1500 requires BDN6676 adapter. FM Approved

RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	BDN6727	742	\$42.00
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1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded.

*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.

*HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.

*XTS 2500 & XTS 5000 require new adaptor. FM Approved.

*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.

*PR1500 requires BDN6676 adapter. FM Approved

EARPIECE RECEIVE ONLY WITH VOLUME CONTROL - BLACK (SINGLE WIRE)	BDN6728	742	\$53.00
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1-Wire Receive-Only Surveillance Kit with Volume Control and Earpiece, Black, 3.5mm Threaded.

*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.

*XTS 3000 requires BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.

*XTS 2500 & XTS 5000 requires new adaptor. FM Approved.

*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.

*PR1500 requires BDN6676 adapter. FM Approved.

EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	BDN6729	742	\$114.00
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2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded.

*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.

*XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.

*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.

*PR1500 require BDN6676 adapter. FM Approved.

EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	BDN6730	742	\$135.00
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3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded.

*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.

*HT1000 & XTS 3000 require BDN6676 adapter.

*XTS 2500 & XTS 5000 require new adaptor. FM Approved.

*EX500 & EX600 XLS requires PMLN4455 adapter. FM Approved.

*PR1500 requires BDN6676 adapter. FM Approved.

EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	BDN6731	742	\$118.00
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2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded.

*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.

*HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved.

*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.

*PR1500 requires BDN6676 adapter. FM Approved.

EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	BDN6732	742	\$150.00
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3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded.

*APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.

*HT1000 & XTS 3000 require BDN6676 adapter.

*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.

*PR1500 requires BDN6676 adapter. FM Approved.

Data Compiled 16-Feb-2015 using DUP and all prices in USD

Motorola APX Transportable Station



Note:

- Compatible with APX 7500/6500/4500 Mid-Power Mobiles (*ordered separately*)
- Compatible with O2, O3, O5, and O7 Control Heads (*ordered separately*)
- Compatible with 7.5 watt detachable speaker (*HSN4038A ordered separately*)
- Compatible with magnetic low profile antenna (*PAN6003A ordered separately*)
- Supports Dual Band Operation

[Ship Card](#)

General Information

The APX™ Transportable Station is a highly versatile, lightweight, rugged, rapid deployment product. It can be deployed as a temporary base station (law enforcement command posts, military deployment, surveillance operations, emergency response teams, fire fighting support). It can also be installed in vehicles when mobile installation without permanent installation is a requirement (rental car) or when mobile covert communication is desired.

The unit is packaged in a lightweight, horizontal, black powder coated, lockable aluminum suitcase. This product provides customers with the versatility of a “Jump and Run” communications package and the

flexibility of a semi-fixed or transportable RF station.

It utilizes a standard mid-power APX 7500/6500/4500 mobile, O2/O3/O5/O7 control head, mobile antenna and a mobile speaker (**all ordered separately**). Two RF ports are available to support dual band. Audio ports are also available for headset, headphone and record operation. Record operation is only supported on the O3 CH configuration.

The APX Transportable Station operates with 110/220VAC or 12VDC power input. The suitcase is equipped with a “mouse-hole” exit for cable routing outside the case, allowing for covert closed case operation.

NOTE: For the O2 CH configuration the speaker cable between the transceiver and the control head must be detached during installation.

Features

APX Transportable Station Features

<ul style="list-style-type: none"> • Carbide Black Powder Coated Aluminum Case 7" tall x 13" deep x 21"wide • Combination Locking Case • AC Power Supply Auto Switching 85-250VAC (49-61 Hz) • AC Power Cable (110VAC) Included • 12VDC Vehicle Accessory Power Cable Included 	<ul style="list-style-type: none"> • Closed Case Covert Operation • Accessory Storage Pouch • Optional 13' O3 Microphone extension cable(APX7500/6500 mobiles only)
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Control Panel Includes

<ul style="list-style-type: none"> • AC and DC Power Receptacles • Type "UHF" Female SO 239 Antenna Connectors • Mobile Radio Mount • Speaker Receptacle 	<ul style="list-style-type: none"> • Headset Jack (6-pin Hirose) • Headphone Jack (1/4" Audio Jack) • Tape Recorder Jack with Plug (Mini-XLR 5 pin) • Microphone Clip
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This case also has a mouse hole exit for cable routing outside the case, allowing for closed case operation.

[P2096 Overview and Compatibility](#)

Models

Description	Nomenclature	APC	Price
RADIOS SALES MODEL,APX TRANSPORTABLE STATION	P2096	570	\$3,200.00

Options

Description	Nomenclature	APC	Price
ADD: O3 CORD EXTENSION 17 FEET (APX7500/6500 mobiles only)	H143	570	\$50.00

Data Compiled 16-Feb-2015 using DUP and all prices in USD