RFID PRODUCT GUIDE – North & South America

RFID UHF Passive Options For WorkAbout Pro G2 and 3:

RFID Products for WAP G2		Frequency / Output Power	Slot Occupied	RFID Module	End Cap / Antenna Type	BAAN Item No.	Approvals	Tag Protocol / Tag Type
RFID Module UHF-CA3-A5-G2 Impinj		**915 MHz / 500mW (27dBm)**	**XMOD (100 pin)**	**CAEN Module A528*** (FCC Part 15, ETSI EN 302 208)	**MPEC** No GPRS / Linear Polarization***	**1051585**	**FCC:**GM3UHFCA3A5 **IC: 2739D-CA3A5**	**EPC Class 1 GEN2**
RFID Module UHF-CA3-AC5-GPRS Impinj		**915 MHz / 500mW (27dBm)**	**XMOD (100 pin)**	**CAEN Module A528*** (FCC Part 15, ETSI EN 302 208)	**Backplate, GPRS radio use is mandatory (must be purchased separately***) / Circular Polarization***	**1100625**	**FCC:**GM3UHFCA3A5 GPRS **IC: 2739D-CA3A5GPRS**	**EPC Class 1 GEN2**
RFID Module UHF-CA3-AC5-XMOD Impinj		**915 MHz / 500mW (27dBm)**	**XMOD (100 pin)**	**CAEN Module A528*** (FCC Part 15, ETSI EN 302 208)	**Backplate, No GPRS / Circular Polarization***	**1100645**	**FCC:**GM3UHFCA3A5 **IC: 2739D-CA3A5**	**EPC Class 1 GEN2**

Note 1: Linear antenna reads the tags in horizontal position only; Circular antenna reads the tags in all positions (horizontal and vertical). *Provided with the RFID Solution.
Note 2: MPEC = MultiPurpose EndCap – located at the top of the unit
Note 3: **Mandatory requirement for this option:** GPRS radio **with power connector**, model RA3030-G2
Note 4: SDKs and demo applications for the above listed readers can be found on the Psion website in the developers section of Ingenuity Working.

UHF Passive Compatibility Matrix for WAP G2 and 3:

RFID Products	Slot/Interface	Imager & Laser Pod Options	Imager & Laser End Cap Options	End Cap	WIFI Option (1)	GPRS Option (2)	UMTS option	GPS option
RFID Module UHF-CA3-A5-G2 CAEN Module (NA) BAAN MPEC: 1051585	XMOD (100 pin)	All	NO	MPEC(*) – occupied by UHF antenna	Yes	NO	NO	NO
RFID Module UHF-CA3-AC5-GPRS CAEN Module (NA) BAAN MPEC: 1100625	XMOD (100 pin)	NO	Yes Exception: NO LORAX , or HHP 5180 compatibility	Free (except if scanner option is used)	Yes	Yes	No	***Possible – to be investigated***
RFID Module UHF-CA3-AC5-XMOD CAEN Module (NA) BAAN MPEC: 1100625	XMOD (100 pin)	NO	Yes Exception: NO LORAX , or HHP 5180 compatibility	Free (except if scanner option is used)	Yes	No	NO	***Possible – to be investigated***

	Available
	Not Available

RFID UHF Passive Options For 753x G2:

RFID Products for 7535 G2		Frequency / Output Power	Slot Occupied	RFID Module	End Cap / Antenna Type	BAAN Item No.	Approvals	Tag Protocol / Tag Type
RFID Module UHF RD7950 AWID		915 MHz / 1Watt (30dBm)	External TETHER Port	AWID Module*	Standard / Circular Polarization*	RD7950	FCC Id: GM3RD7950 IC Id: 2739-RD7950	EPC Class 0, 0+, 1 GEN2, ISO 18000-6B / EM Micro

Note 1: SDK for the above listed reader can be found on the Psion website in the developers section of Ingenuity Working.

Note 2: Lorax version will require different hardware (longer screws, washers) in order to properly attach the reader to the handheld.

UHF Passive Compatibility Matrix for 753x G2:

RFID Products	Slot/Interface	Imager & Laser Options	GPRS	GPS	WIFI Option
UHF RD7950 NA: AWID Module (FCC, Canada) BAAN: RD7950	External Tether Port	All (see Note 2)	NO	NO	Internal CF slot – not user accessible

	Available
	Not Available

RFID HF Passive Options For WorkAbout Pro G2 and 3:

RFID Products for WAP G2		Frequency / Power Output	Slot Occupied	RFID Module	End Cap / Antenna Type	BAAN Item No.	Approvals	Tag Protocol / Tag Type
RFID Module HF-T2-G2 TAGSYS		**13.56 MHz / 250 mW**	**USB (End Cap based)**	**TAGSYS Module MEDIO S002***	**MPEC* with GSM antenna shroud / Horizontal Antenna***	**1051310**	**FCC Id: GM3HFT2G2 IC Id: 2739D-HFT2G2**	**ISO 15693, ISO 18000, / TAGSYS (C210, C240, C220), Philips I-Code™, TI Tag It™,**
RFID Module HF-AM1-G2 HID		**13.56 MHz / 200 mW**	**USB (End Cap based)**	**HID Module Multi ISO***	**MPEC* with GSM antenna shrould / Horizontal Antenna***	**1051270**	**FCC Id: GM3HFAM1G2 IC Id: 2739D-HFAM1G2**	**See note 2**

Note 1: * Provided with the RFID Solution.

Note 2:

	RFID MODULE HF-AM1-G2		
Tag Protocol	ISO 14443A/B, ISO 15693, ISO 18000-3, NFC enabled, ICODE		
Tag type	mifare® Standard mifare® 4k mifare® Pro mifare® Ultralight mifare® DESFIRE mifare® SmartMX I-CODE SLI (SL2 ICS 20) I-CODE EPC (SL2 ICS 10) I-CODE UID (SL2 ICS 11) I-CODE NFC (Reader To Tag Mode)	SLE 55Rxx SRF55VxxP +S SLE 66CL160S SLE 66CLX320P SR176 SRIX4K LRI 64 LRI 512 EM4135 KSW Temp Sens®	Tag-it™ HF-I Standard Tag-it™ HF-I Pro Jewel Tag Sharp B ASK GTML ASK GTML2ISO TOSMART P032/P064

Note 3: MPEC = MultiPurose EndCap

Note 4: SDKs and demo applications for the above listed readers can be found on the Psion website in the developers section of Ingenuity Working.

Note 5: Xmod version of Tagsys reader – p/n 1004320

HF Compatibility Matrix for WAP G2 and 3:

RFID Products	Slot/Interface	Imager & Laser Pod Options	Imager & Laser End Cap Options	End Cap	WIFI Option (1)	GPRS Option (2)	UMTS option	GPS option
RFID Module HF-T2-G2 TAGSYS Module (FCC, Canada) BAAN MPEC GPRS: 1051310	USB End Cap	All	NO	MPEC with GPRS shroud(*) - Occupied by reader and antenna	Yes	Yes, with USB module only	NO	NO
RFID Module HF-AM1-G2 HID Module (FCC, Canada) BAAN MPEC GPRS: 1051270	USB End Cap	All	NO	MPEC with GPRS shroud(*) – Occupied by reader and antenna	Yes	Yes, with USB module only	NO	NO

	Available
	Not Available

RFID HF Passive Options For Ikon:

RFID Products for IKON		Frequency / Power	Slot	RFID Module	End Cap / Antenna	BAAN Item	Approvals	Tag Protocol / Tag Type
RFID Module HF-AM1-IKON HID		**13.56 MHz / 200 mW**	**Tethered Snap On** **Power jack for battery charge**	**HID Module Multi ISO** **2 SAM slots**	**Snap On Module / Bottom Antenna**	**1081819**	**CE** **FCC Id: GM3HFAM1IKON** **IC: 2739D-HFA1IKON**	**See note 1** **Full Mifare compatible** **2 SAM slots** **(Security Access Module)**

Note 1:

RFID MODULE HF-AM1-G2			
Tag	ISO 14443A/B, ISO 15693, ISO 18000-3, NFC enabled, ICODE		
Protocol	mifare® Standard	SLE 55Rxx	Tag-it™ HF-I Standard
	mifare® 4k	SRF55VxxP +S	Tag-it™ HF-I Pro
	mifare® Pro	SLE 66CL160S	Jewel Tag
	mifare® Ultralight	SLE 66CLX320P	Sharp B
	mifare® DESFIRE	SR176	ASK GTML
	mifare® SmartMX	SRIX4K	ASK GTML2ISO
Tag type	I-CODE SLI (SL2 ICS 20)	LRI 64	TOSMART P032/P064
	I-CODE EPC (SL2 ICS 10)	LRI 512	
	I-CODE UID (SL2 ICS 11)	EM4135	
	I-CODE	KSW Temp Sens®	
	NFC (Reader To Tag Mode)		

HF Compatibility Options for IKON:

RFID Products	Slot	Imager & Laser End Cap Options	WIFI Option	UMTS Option	GPS Option
FID Module HF-AM1-IKON **BAAN: 1081819**	**TETHER Snap on module**	**Internal**	**Internal**	**Internal**	**Internal**

	Available
	Not Available

RFID HF Passive Options For Neo:

RFID Products for IKON		Frequency / Power	Slot	RFID Module	End Cap / Antenna	BAAN Item	Approvals	Tag Protocol / Tag Type
RFID Module HF-AM1-Neo HID		13.56 MHz / 200 mW	50 pin expansion on back of unit	HID Module Multi ISO 2 SAM slots	Snap On Module / Bottom Antenna	PX3070	CE FCC Id: GM3HFAM1Neo IC: 2739D-HFA1Neo	See note 1 Full Mifare compatible 2 SAM slots (Security Access Module)

Note 1:

	RFID MODULE HF-AM1-G2		
Tag Protocol	ISO 14443A/B, ISO 15693, ISO 18000-3, NFC enabled, ICODE		
Tag type	mifare® Standard mifare® 4k mifare® Pro mifare® Ultralight mifare® DESFIRE mifare® SmartMX I-CODE SLI (SL2 ICS 20) I-CODE EPC (SL2 ICS 10) I-CODE UID (SL2 ICS 11) I-CODE NFC (Reader To Tag Mode)	SLE 55Rxx SRF55VxxP +S SLE 66CL160S SLE 66CLX320P SR176 SRIX4K LRI 64 LRI 512 EM4135 KSW Temp Sens®	Tag-it™ HF-I Standard Tag-it™ HF-I Pro Jewel Tag Sharp B ASK GTML ASK GTML2ISO TOSMART P032/P064

HF Compatibility Options for Neo:

RFID Products	Slot	Imager & Laser End Cap Options	WIFI Option	UMTS Option	GPS Option
RFID Module HF-AM1-Neo **BAAN: PX3070**	**TETHER Snap on module**	**Internal**	**Internal**	**Internal**	**Internal**

	Available
	Not Available

RFID LF Passive Options for Workabout Pro G2:

RFID Products for WAP G2		Frequency / Output Power	Slot Occupied	RFID Module	End Cap / Antenna Type	BAAN Item	Approvals	Tag Protocol / Tag Type
RFID Module LF-AH1-G2 HID		125 KHz and 134.2 KHz / 200 mW	USB (End Cap)	HID Module Multi TAG*	MPEC* with GSM antenna shroud / Horizontal Antenna*	1051330	FCC Id: GM3LFAH1G2 IC Id: 2739D-LFAH1G2	See note 2
RFID Module LF-AIR200-G2 (see note 4) agrident		134.2 KHz / 250 mW	XMOD (End Cap)	AGRIDENT Module	Agrident End Cap * / Vertical Antenna*	9008662	FCC Id: GM3AIR200X IC Id: 2739D-AIR200X	ISO 11784, ISO 11785 / Read ONLY HDX and FDX-B compliant (EM4x02 compatible optional)

Note 1: * Provided with the RFID Solution.

Note 2:

	RFID MODULE LF-AH1-G2		
Tag Protocol	ISO 11784, ISO 11785		
Tag Type	Hitag 1 Hitag 2 Hitag S	Q5 EM4X02 EM4X05 (ISO FDX B) EM4X50	TI-RFID Systems 134.2 kHz 64Bit R/O TI-RFID Systems 134.2 kHz 64Bit R/W TI-RFID Systems 134.2 kHz 1088Bit Multipage

Note 3: MPEC = MultiPurose EndCap

Note 4: **- This product is not compatible with pistols grip.**

- The AEA12X external antenna option is not compatible with Laser and imager Pod**.**

- If the Hand strap is selected **add** 2 screws M2.6 x 8 (BAAN item: 9009769) and 2 Washers M2.5 (BAAN item: 9011213).

Note 5: SDK and demo application for the above listed ACG reader can be found on the Psion website in the developers section of Ingenuity Working.

Note6: Installation CD containing documentation, SDK and demo applications for the Agrident AIR200 reader can be obtained by ordering p/n 9008662CD (**free of charge**). The same can be obtained from the RFID Partners - Knowledge Base section of Ingenuity Working.

LF Compatibility Matrix for WAP G2:

RFID Products	Slot/Interface	Imager & Laser Pod Options	Imager & Laser End Cap Options	End Cap	WIFI Option (1)	GPRS Option (2)	UMTS option	GPS option
RFID Module LF-AH1-G2 HID Module (FCC, Canada) BAAN MPEC GPRS: 1051330	USB End Cap	All	NO	MPEC with GSM antenna shroud occupied by reader and antenna(*)	Yes	Yes	NO	NO
RFID Module AIR200 (4) AGRIDENT Module (FCC, Canada) BAAN: 9008662	XMOD Slot	All – see Note (3)	NO	Agrident End Cap (*)	Yes	NO	NO	NO

	Available
	Not Available

(1) WAP WIFI option: use the CF-Card slot (BAAN item RA2041/3).

(2) WAP GPRS option: uses 100 pin connector (BAAN item RA3030-G2 with GSM antenna shroud).

(3) Not compatible with the AEA12X external antenna option.

(4) Not compatible with Pistols grip. If the hand strap is selected add 2 screws M2.6 x 8 (BAAN item: 9009769) and 2 Washers M2.5 (BAAN item: 9011213).

(*) Provided with the RFID Solution

Note: MPEC = MultiPurpose EndCap

Resources

RFID Product Guide and Spec Sheets - The latest version of the RFID Product Guides (WWE or NA), as well as the reader specific spec sheets, can be found on Ingenuity Working at the following link or in the reader's demo application zip file.

RFID Photos and Videos - can be found on Ingenuity Working at the following link

RFID User's Manuals – Can be found on Ingenuity Working at the following link. They are contained in the zip file corresponding to the reader demo application (see below).

RFID Driver Manager - Can be found on Ingenuity Working at the following link. The driver manager (RFID Driver Manager vx.00.CAB) contains all the files necessary to install/ uninstall driver for RFID module in use and automatically detects the RFID product installed in the WorkAbout Pro, Ikon or Neo. In addition, the following files are also provided:

- Compact Framework 3.5 (for CE 5 or WM 6.x).
- RFID Driver Manager user manual - Documentation on how to use the RFID Driver Manager application.

RFID Demo applications – An RFID demo application, as well as a keyboard wedge, which demonstrates the basic reader specific features (read, read/write, etc) can be found on Ingenuity Working at the following link. The zip file contains:

- RFID Tools.CAB – Contains all the necessary libraries/dlls to operate the specific RFID module in use. It also installs two DEMO applications (a standard, general DEMO and a wedge DEMO).
- Sources (RFID Reader): A Visual Studio 2005 project for building the DEMO apps in the aforementioned .CAB file, including all of the libraries needed to build it.
- USER MANUAL.pdf: Documentation on using the DEMO apps installed.
- RFID driver for each products
- RFID product guide.pdf

RFID SDKs - Can be found on Ingenuity Working at the following link. The SDKs provide development support for creating custom applications for each specific reader in .NET. Both Windows® CE and Windows Mobile® operating systems are supported. Please note that C++ and Java development are not supported.

RFID Hints and Tips - Can be found on Ingenuity Working at the following link

Additional Notes:

1) ***For availability of any of the RFID options listed in this document in Europe, Asia Pacific, or other parts of the world please refer to the World Wide Edition of the RFID Product Guide which can be found here .***

2) ***For availability of any of these RFID options in Central and South America, especially as it pertains to approvals secured for individual countries, please contact your local Psion sales/technical representative.***

3) ***For additional, partner based, RFID options please check with your Psion representative. You may also wish to consult the IngenuityLive! Solutions or Partner Directory sections of Ingenuity Working.***