# ICEFIRE

#### 10.4" Mobile Clinic Assistant

- 10.4" TFT XGA LCD
- Intel® Atom™ D525 dual core platform
- Powered by Windows ® Embedded Standard 7 P
- Dual-mode input (Digitizer + Multi-Resistive Touch)
- Dual hot swappable battery
- 1D/2D barcode reader, RFID reader, smart card reader and fingerprint reader
- Bluetooth, Wi-Fi, 3.75G wireless



































Retrieve patient data at bedside for optimal point-ofcare treatment.



Instant access to patient medical history for real-time diagnosis.



Accurately capture and record patient symptoms during an emergency.



Increase productivity and decrease opportunities for error through documentation directly at point-of-care.

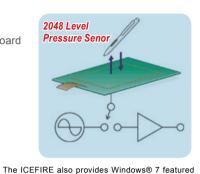


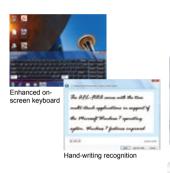
## **Dual-Mode Input**

Along with Windows® 7 digitizer support and dual-mode input support, the ICEFIRE features both WACOM digitizer and traditional resistive touch input with auto-sensing and auto-switching. When a digitizer pen moves close to the screen of the ICEFIRE, the digitizer automatically takes effect and switches off resistive touch input mode.

The digitizer is a more accurate and sensitive input method that can detect stylus pressure, speed, and angle. This feature is suitable for a clinician to note patient's vital signs. Another key benefit of the digitizer is to prevent mis-touch. A clinician can use the digitizer pen to write accurate prescriptions without the worry of input errors. The working principles of the EMR® digitizer are as follows:

- The tablet surface incorporates a sensor board that detects the pen's movement.
- Weak energy is induced in the pen's resonant circuit by a magnetic field generated by the sensor board surface
- The pen's resonant circuit then makes use of this energy to return a magnetic signal to the sensor board surface.





Dual input modes combined with acceleration keys make computing flexible and convenient for healthcare staff working in many different applications.







Multi-Touch Support



Each battery pack, with medical-grade certifications, provides 11.1 V 1880 mAh capacity and supports a hot swappable function. When one battery is removed, the system automatically switches power consumption to the other battery. With an additional battery pack and the hot swappable feature, the ICEFIRE ensures non-stop point-of-care, 24 hours a day, every day.



Each battery pack has capacity indicators. Besides these visual indicators, operating systems like Windows® 7 will also display information of available batteries and capacity on the desktop.

The ICEFIRE consumes the battery with lower power capacity first. When charging, the ICEFIRE charges the battery with higher power capacity first then the other.





# **Security and Access Control**

Combined with Windows® 7 Embedded security management feature, the built-in fingerprint reader allows hospitals to control access priorities.

The optional USB interface smart card reader supports identity verification and makes the ICEFIRE an ideal access control device for transaction-based medical cloud-computing systems.



**Optional Smart Card Reader (SCR)** 



Fingerprint Reader



Automation Panel Solutions

PACSmate Medical Solutions

Optional

## **Ergonomic Design**

#### IP64 Compliant and **Easy-to-Clean Plastic Housing**



#### Ergonomic Handlebar and Hinge Stand







Handle design for easy carry

Ergonomic Grip Handle

#### **Medical-grade Certification Approved**

EN 60601-1 EN 60950



**Antibacterial Housing** 





## **Flexible Installation Design**





The ICEFIRE Docking Station (ICEFIRE-DS) provides power to one docked ICEFIRE and two plug-in battery packs simultaneously.

#### **WOW (Workstation on Wheels) Installation**

The combination of ICEFIRE and ICEFIRE Docking Station is an ideal solution for a healthcare cart:



- Desktop, swing arm, or VESA mounting options
- Expanded I/O connects to peripherals such as keyboard/ mouse, printer, barcode scanner, or medical equipments
- Easy to draw out and draw back
- Convenient bedside healthcare
- Power and battery options support uninterrupted point-of-



#### ICEFIRE Car Dock (Rugged Docking Station)



With a metal snap on design, the ICEFIRE car dock is made to withstand harsh vehicle environments such as strong vibrations



#### **Wall Mount Installation**





Part No.: ICEFIRE-T10A-DSRG-R10



# ICEFIRE-ET

#### **Enterprise Tablet PC**

- 10.4" TFT 350 cd/m² XGA LCD with multi resistive touch
- Intel® Atom™ D525 dual core 1.8 GHz platform
- Powered by Windows® Embedded Standard 7 P
- 3-megapixel camera with LED flash
- Bluetooth, Wi-Fi, Ethernet LAN
- Dual hot swappable battery
- Optional docking station / smart card reader



















# **Applications**



#### **Enterprise Mobility**

Using mobile devices helps save your time and increases productivity. The right technology enables the flow of information between handheld devices used by your workers and your core business systems. The ICEFIRE-ET utilizes wireless local area networks (WLANs) and management software to increase the data transfer speed and optimize your working mobility in logistics and warehousing environments.

#### Inspection

The ICEFIRE-ET is most suitable for inspection applications. It features an ergonomic and light weight design that is easy to carry around on-the-job. It also offers exceptional functions that allow information to be stored in real-time and help businesses to provide transparent inspection and accurate information.



#### **Logistics and Warehouse**

Enhancing on-duty staff work force and mobility, the tablet PC brings more efficiency to the workplace. All data and information are saved in the ICEFIRE-ET and can be transferred via wireless communication providing real-time responses without any loss.



# ICEFIRE 2

#### 10.4" Mobile Clinic Assistant

- 10.4" TFT XGA LCD
- Intel® Atom™ N2800 1.86GHz processor
- Powered by Windows® Embedded Standard 7 P
- Built-in 8GB mSATA storage
- Bluetooth, Wi-Fi, 3.75G wireless with GPS
- 1D/2D barcode reader, 13.56MHz RFID reader
- Dual-mode input (Digitizer + Multi-Resistive Touch)
- Dual hot swappable battery
- Dual Camera:
  - 1.3-megapixel front camera
  - 3.0-megapixel rear camera



















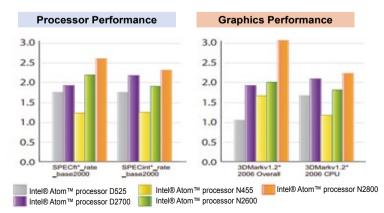




# **High Performance, Low Power Consumption CPU for Fanless Design**

The new generation Intel® Atom™ N2800 processor provides reduced power consumption with high performance suitable for mobile devices in industrial computing. Benefits include:

- Display options include two digital ports supporting extra LVDS/HDMI/VGA interface
- Two times improved graphics with two HD video support
- Faster memory up to DDR3 1066
- Support fan-less design



CPU Specification Comparison							
	ICEFIRE ICEFIRE2						
Core Functionality	1.67 GHz (N455) 1.8 GHz (D525)						
Process Technology / Packing Size	45-nm / 22x22	45-nm / 22x22 32-nm / 22x22					
Graphics Base Frequency	200 MHz (N455) 400 MHz (D525)	400 MHz (N2600) 640 MHz (N2800)					
Memory Technology	DDR3 667 (N455) DDR3 800 (D525)	DDR3 800 (N26 DDR3 1066 (N2					
Max Memory Capacity	2GB (N455) 4GB (D525)	2GB (N2600) 4GB (N2800)					
CPU / TDP	D525 / 13W	N2600 / 3.5W	N2800 / 6.5W				
Chipset / TDP	ICH8M / 2.4W	NM10 / 1.5W NM10 / 1.					
Power kit / TDP	Power / 7W	Power / 3W Power / 3W					
Total	22.4W	8W	11W				

IEIMobile Solutions

Automation

3 PACSmate

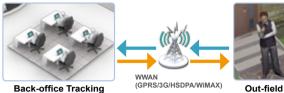
4



## **GPS Application: Position & Location**

Together with wireless network technology (such as 3G), the built-in GPS tracks the exact location of the ICEFIRE users:

- Users can be located on a map to reference his/her own location in relation to other landmarks. With location based services, mobile workers can locate important destinations such as gas stations and customers in an unknown territory.
- Location information obtained from the GPS can be transmitted to the backend office through wireless broadband connectivity, allowing employees to be tracked while they are on the move.





Out-field Location

## mSATA Storage

mSATA SSD leverages the speed and reliability of the SATA interface, providing high-performance and cost-effective storage for smaller devices and enabling more compact integration into a wide variety of applications. Compared to the traditional HDD and CF card storage, mSATA has the following advantages:

- Fast re-write capability
- Able to withstand vigorous vibrations
- Small in size



## Flexible Module Expansion Slot

Located at the back of the ICEFIRE 2, the module expansion slot is designed for easy and fast exchange of a variety of modules, including RFID readers. This design brings functional versatility to the ICEFIRE 2 to serve a diverse range of applications.

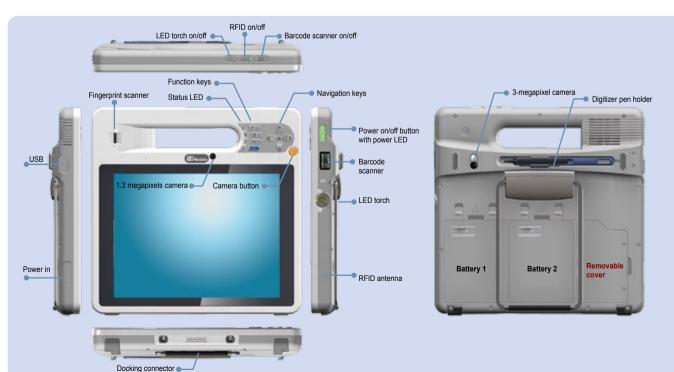


## **Integrated Dual Camera**

The ICEFIRE 2 is integrated with two camera, one on the front and one on the rear. The 3-megapixel rear-facing camera can be utilized for photographic and video documentation purposes. The 1.3-megapixel front-facing camera enables unified video communications wirelessly.







IEIMobile Solutions

Automation Panel Solutions

PACSmate Medical Solutions



#### **Daily Patient Record Case Study**

#### **Background**

A major Taiwan-based hospital with the second largest patient flow in the country has been changing its paper-based recording system into electronic recording systems. With 1,096 beds, approximately 4,000 outpatient visits per day and a bed occupancy rate of 85%, emergency response and after patient care are the most important services provided by this hospital.

#### **Challenge**

Previously, nurses relied on desktop computers and paper records to monitor patients' daily health information such as food intake, body temperature, and output. Daily records were recorded on a notebook located at each patients' bedside. Nurses found this paper-based method to be inconvenient as the records were easily misplaced or lost. Furthermore, hand written information were often misunderstood or hard to read. The hospital realized it was time to improve its daily patient recording system with an electronic-based system.

The institution was in search for a mobile computing solution to enhance nursing efficiency and accuracy.



#### Solution

The ICEFIRE 10.4" Mobile Clinic Assistant offers a mobile platform in which nurses can input and store patient information instantly. The built-in hand writing recognition function and the digitizer technology allow nurses to easily write on the tablet surface without mis-touch. In addition, the barcode and RFID readers are very helpful when it comes to identifying patient and medication. The tablet PC can be connected to the hospital's medical database through Wi-Fi, and patient records can be updated or retrieved safely and efficiently.







#### **Benefits**

- 10.4" screen for easy viewing and operation.
- Dual-mode input with digitizer technology and resistive touch for hand writing recognition and mis-touch prevention.
- Built-in 1D/2D barcode and 13.56MHz RFID reader for automatic identification.
- Dual hot swap battery for increased device operation time.
- Ergonomic design for easy carry and easy use.

# Flexible Installation Design







Secure the holder onto the top of the docking station by inserting four retention

Move the stand downward. Slide the two latches again to lock the stand into place

#### Mounting with Docking Station

The optional docking station of the ICEFIRE2-T10 can be installed on any VESA compliant mounting device. The VESA mount retention screw holes of the docking station are shown in 483H746HFigure 3-13. Follow the instructions in the user manual of the mounting device to mount the docking station securely.



#### VESA Mounting Retention Screw Holes (Docking Station)

Automation Panel Solutions





#### Selection Guide

			ICEFIRE		ICEFIRE 2					
Model		ICEFIRE-T10A HU/2G-32S-R11	ICEFIRE-T10A- TR/2G-32S-R10	ICEFIRE-T10A- ET/2G-32S-R10	ICEFIRE2-T10- HU-R10	ICEFIRE2-T10- TR-R10	ICEFIRE2-T10- ET-R10			
	LCD Size			10.4" TF	TLCD					
	Brightness (cd/m²)	350 cd/m²								
Display	Max Resolution			1024 x 768 p	ixels XGA					
	Viewing Angle			88/88/88/8	<sup>1</sup> 88 Deg.					
	Touch Screen			Resistive Support Multi	i-touch and Gesture					
	Digitizer	256 levels @ full scale pressure resolution	N/A	N/A	2048 levels@ full scale pressure resolution	N/A	N/A			
	CPU	1	.8GHz Intel® Atom™ D525	5	1.8	36GHz Intel® Atom™ N280	0			
	Chipset		Intel® ICH8M			Intel® NM10				
System	Operating System	Microsoft® Win	dows® Embedded Standa	rd 7 P (WS7P)	Microsoft® Win	dows® Embedded Standar	rd 7 P (WS7P)			
	Memory	13	33MHz 2GB DDR3 SDRA	М	13	33MHz 4GB DDR3 SDRAI	М			
	Storage		32GB SSD			mSATA 8G SLC				
	Wireless LAN		Wi-Fi 802.11a/b/g/n			Wi-Fi 802.11b/g/n				
Communication	Bluetooth	Blu	uetooth V2.1+ EDR (Class	2)	Blu	etooth V3.0 + EDR (Class	2)			
Communication	Modem	WCDMA/HSUPA	N/A	N/A	WCDMA/HSUPA	N/A	N/A			
	GPS	N/A	N/A	N/A	Option	Option	Option			
	Camera	3-megapixel and LED Light			1.3-megapixel CMOS camera (Front) / 3-megapixel CMOS camera (Rear)					
Data Collection	Barcode	1D/2D Imager	Scan Engine	N/A	1D/2D Image	N/A				
	RFID	13.56 MHz RFID sup ISO14443A/	ports ISO15693 and B compliant	N/A	13.56 MHz RFID support B cor	N/A				
Fingerprint Reader		Yes	Yes	N/A	Yes	Yes	N/A			
Indicators &	LED Indicators	Power/ Wi-Fi/Bluetooth/ RFID/ Battery Status LED		Power/ Wi-Fi/Bluetooth/ Battery Status/	Power/ Wi-Fi/Bluetooth/ RFID/ Battery Status LED		Power/ Wi-Fi/ Bluetooth/ Battery Status			
Buttons	Keys	5-way Navigation key/Bar Torch/Camera/Wi-Fi/Blue	code Scanner/RFID/LED tooth/SAS/Function Key	5-way Navigation key/ Camera/Wi-Fi/Bluetooth/ SAS/Function Key	5-way navigation key/ Barcode Scanner/RFID/LED Torch/Camera/Wi-Fi/ Bluetooth/SAS/Function Key  5-way navigat Camera/ Vi Bluetooth/ Function					
	USB		1 x USB 2.0			1 x USB 3.0				
I/O Interface	LAN		1 x 10/100 Mbps		1 x 10/100/1000 Mbps					
	Audio			1 x 2W Speake	eaker, 1 x Mic in					
	LED Torch	1 x LED Torch	1 x LED Torch	N/A	1 x LED Torch	1 x LED Torch	N/A			
	Power Adapter			12V @ 5A	@ 60W					
Power	Docking Power Adapter	19V @ 4.74A @ 90W								
	Battery	Dual 11.1V 1880mAh Li-ion Battery								
	Operating Temperature	0°C to +40°C								
	Storage Temperature			-10°C to	o +60°C					
	Humidity			5%~95% non-	n-condensing					
Environment	Drop Survival			90 cı	) cm					
	Environmental Protection			IP 64 complian	ant front panel					
	Certifications	CE/FCC, Medical-grade Class B EN 60601-1/ EN60950	CE/FCC, Medical-grade Class B EN 60601-1/ EN60950	CE/FCC	CE/FCC	CE/FCC	CE/FCC			
Physical	Dimensions (LxWxH) (mm)			270 x 26	5 x 29					
Characteristics	Weight	1.7 kg	1.7 kg	1.6 kg	1.7 kg	1.7 kg	1.6 kg			

4

Optional Peripherals

#### Ordering Information

Part No.	Description
ICEFIRE: Intel® Atom™ D52	5 CPU with Windows® Embedded Standard 7
ICEFIRE-T10A-HU/2G-32S-R11	10.4" TFT-LCD 350 cd/m² XGA Industrial Mobile Clinical Assistant with Dual-core Intel® Atom™ D525 1.8GHz CPU, Multi-Touch and Digitizer Dual Mode, 2GB DDR3 RAM, HSUPA, 802.11a/b/g/n Wireless, Bluetooth, 1D/2D Barcode Scanner, RFID, 3-megapixel Camera, LED Torch, 32GB SSD, WS7P RoHS
ICEFIRE-T10A-TR/2G-32S-R10	10.4" TFT-LCD 350 cd/m² XGA Industrial Mobile Clinical Assistant with Dual-core Intel® Atom™ D525 1.8GHz CPU, Resistive Multi-Touch, 2GB DDR3 RAM, 802.11a/b/g/n Wireless, Bluetooth, 1D/2D Barcode Scanner, RFID, 3-megapixel Rear Camera, LED Torch, 32GB SSD, WS7P, RoHS
ICEFIRE-T10A-ET/2G-32S-R10	10.4" TFT-LCD 350 cd/m² XGA Industrial Mobile Clinical Assistant with Dual-core Intel® Atom™ D525 1.8GHz CPU, Resistive Multi-Touch, 2GB DDR3 RAM, 802.11a/b/g/n Wireless, Bluetooth, 32GB SSD, WS7P RoHS
ICEFIRE 2: Intel® Atom™ N2	2800 CPU with Windows® Embedded Standard 7
ICEFIRE2-T10-HU-R10	10.4" TFT-LCD 350 cd/m² XGA Industrial Mobile Clinical Assistant with Dual-core Intel® Atom™ N2800 1.86GHz CPU, Multi-Touch and Digitizer Dual Mode, 4GB DDR3 RAM, HSUPA, 802.11b/g/n Wireless, Bluetooth, 1D/2D Barcode Scanner, RFID, 3M Pixel Rear Camera, 1.3-megapixel Front Camera, LED Torch, 8GB mSATA, WS7P RoHS
ICEFIRE2-T10-TR-R10	10.4" TFT-LCD 350 cd/m² XGA Industrial Mobile Clinical Assistant with Dual-core Intel® Atom™ N2800 1.86GHz CPU, Resistive Multi-Touch, 4GB DDR3 RAM, 802.11b/g/n Wireless, Bluetooth, 1D/2D Barcode Scanner, RFID, 3-megapixel Rear Camera, 1.3-megapixel Front Camera, LED Torch, 8GB mSATA, WS7P, RoHS
ICEFIRE2-T10-ET-R10	10.4" TFT-LCD 350 cd/m² XGA Industrial Mobile Clinical Assistant with Dual-core Intel® Atom™ N2800 1.86GHz CPU, Resistive Multi-Touch, 4GB DDR3 RAM, 802.11b/g/n Wireless, Bluetooth, 8GB mSATA, WS7P RoHS

#### **Model Variations**

Part No.	Digitizer	Touch	Wireless	Bluetooth	3.75G	GPS	Barcode	RFID	Fingerprint Reader	Storage
ICEFIRE: Intel® Atom™ D525 CPU with Windows® Embedded Standard 7										
ICEFIRE-T10A-HU/2G-32S-R11	Digitizer	Resistive Multi-touch	802.11a/b/g/n	Ver. 2.1+EDR, Class 2	Qualcomm	N/A	1D/2D	RFID	Yes	32G SSD
ICEFIRE-T10A-TR/2G-32S-R10	N/A	Resistive Multi-touch	802.11a/b/g/n	Ver. 2.1+EDR, Class 2	N/A	N/A	1D/2D	RFID	Yes	32G SSD
ICEFIRE-T10A-ET/2G-32S-R10	N/A	Resistive Multi-touch	802.11a/b/g/n	Ver. 2.1+EDR, Class 2	N/A	N/A	N/A	N/A	N/A	32G SSD
ICEFIRE 2: Intel® Atom™ N2800 C	PU with Wi	ndows® Embedded Sta	andard 7							
ICEFIRE2-T10-HU-R10	Digitizer	Resistive Multi-touch	802.11b/g/n	Ver. 3.0+EDR Class 2	Qualcomm	Option	1D/2D	RFID	Yes	8G mSATA
ICEFIRE2-T10-TR-R10	N/A	Resistive Multi-touch	802.11b/g/n	Ver. 3.0+EDR Class 2	N/A	Option	1D/2D	RFID	Yes	8G mSATA
ICEFIRE2-T10-ET-R10	N/A	Resistive Multi-touch	802.11b/g/n	Ver. 3.0+EDR Class 2	N/A	Option	N/A	N/A	N/A	8G mSATA

#### Packing List

Item	Part No.	HU	TR	ET
Digitizer Pen	7Z000-SU5E10S06AU00X-RS	•		
Stylus	43125-0002C0-00-RS		•	•
Battery Pack	31603-000016-RS	•	•	
Battery Pack-B	31603-000020-RS			•
Medical-grade Power Adapter (12V/60W)	63040-010060-020-RS	•	•	
Non-Medical-grade Power Adapter (12V/60W)	63040-010060-030-RS			•
User's Manual CD	7B000-000552-RS	•	•	•

















Carrying Case

Docking Station

Smart Card Reader

Battery Pack 12V

Power Adapter 19V Power A

Digitizer Pen

Stylus

#### Optional Accessory List

Item	Part No.	Description		
Dooking Station	ICEFIRE-T10A-DSNM-R10	ICEFIRE Docking Station Without Docking Adapter, Normal type		
Docking Station	ICEFIRE-T10A-DSRG-R10	ICEFIRE Docking Station Without Docking Adapter, Rugged type		
	19B00-000288-00-RS	Standard power adapter for docking station		
Docking Station Power Adapter	19B00-000289-00-RS	Medical grade power adapter for docking station		
. owo. / taapto.	63040-290090-010-RS	Car cigarette power adapter for docking station		
Smart Card Reader ICEFIRE-T10A-SCR01-R10		USB 2.0 (Full Speed) Smart Card Reader Complies with ISO7816-1,2,3 for ICEFIRE-T10A		
Battery Pack	31603-000016-RS	11.1V 1880 mAh Battery		
Battery Pack-B	31603-000020-RS	11.1V 1880 mAh Battery, Black		
Digitizer Pen	7Z000-SU5E10S06AU00X-RS	Digitizer Sensor Pen		
Stylus	43125-0002C0-00-RS	Touch Pen		
Carrying Case	7Z000-ICEFIRET10APOUCH-RS	Black, leather protective bag with shoulder strap		

IEIMobile Solutions

Automation Panel

PACSmat

Optional

Optional Peripherals

# ICECARE-05

#### New

#### **Pocket Mobile Field Assistant**



- Texas Instruments Sitara™ ARM® Cortex™-A8 CPU
- Powered by Android 4.1.2 OS
- Bluetooth and Wi-Fi
- 5-megapixel CMOS camera
- Optional HF / UHF RFID reader













Exit verification









# **Retail and Warehouse Management Applications**

The ICECARE-05 is designed for applications in the retail industry. Pocket sized consumer-grade mobile devices are not designed to withstand drops and often fall short on battery life. However, with its industrial-grade design, the ICECARE-05 offers prolonged operation time and enhanced durability to users in the vertical industry.

















Billina



Central monitoring & decision support



# The Industry's Lightest Android Tablet with Rugged Design

The ICECARE-05 is the industry's lightest Android tablet PC with a rugged design. Weighing less than 300 grams, the ICECARE-05 is designed with an IP 64 rating, 1.2M drop survival, and wide operating temperatures.



#### IP 64 Rating

Dust tight and protected against water splashed against the component from any direction



#### **Operating Temperature -10°C ~ 50°C**

It can be operated under a wide range of temperatures.



#### 1.2M Drop Test

Passed the 1.2M drop test on all sides 26 times.



#### **Storage Temperature -20°C ~ 60°C**

It can be stored under extreme temperatures.



#### Protective cover over:

1 x Micro USB 1 x microSD



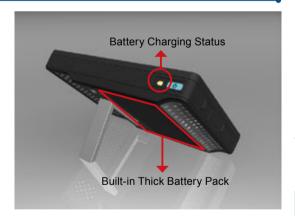
The ICECARE-05 is surrounded by black rubber protecting it from water and dust intrusions and drops

#### **Enhanced Operating Time**

In order to increase device operating time and meet the requirements of long work hours, the ICECARE-05 is built in a thick battery pack with an extended operating time of 8 hours.

Battery Pack	Details	*Operating Time (Hrs)
Thick Battery	3600mAh	8 Hrs (Normal Usage)

<sup>\*</sup> Under normal usage when 3G/GPS/UHF functions are turned off.



# **Optional Advanced RFID Technology**

The RFID (Radio-Frequency Identification) technology utilizes frequencies ranging from 125KHz to 2.45GHz. The ICECARE-05 features an optional HF or UHF RFID reader.

#### **HF RFID Reader**

The 13.56MHz RFID reader is suitable for item identification in warehouse.

#### **UHF RFID Reader**

The optional UHF RFID reader, which operates within 840MHz to 960MHz, is excellent for multiple item identification and tracking applications.





- HF RFID: short reading distance, single item identification
- UHF RFID: long reading distance, multiple item identification



Automation Panel

PACSmate Medical

Solutions





#### Specifications

Model	ICECARE-05			
	LCD Size	5" TFT LCD		
	Brightness (cd/m²)	350		
Display	Max. Resolution	800 (H) x 480 (V)		
	Viewing Angle	70/70/50/70 Deg.		
	Touch Screen	Projected capacitive type		
	CPU	TI Sitara™ AM3715 1GHz		
System	Operating System	Android 4.1.2		
	Memory	4GB eMMC Flash + 512MB SDRAM		
Communication	Wireless LAN	802.11a/b/g/n		
Communication	Bluetooth	Bluetooth 4.0		
Data Collection	RFID	13.56MHz RFID reader (optional) UHF RFID reader (optional)		
	Camera	5-megapixel camera		
	LED Indicators	Power on LED (Blue)/ Sleep (Red)		
Indicators &	LED Indicators	Charging LED (Orange)/ Full (Green)		
Keys	Keys	Power on / off switch		
	Neys	4 x Function key (Home/Menu/Back/Search)		

	Audio	1 x Headset			
	Audio	1 x 0.5W speaker			
		1 x Micro USB Client			
I/O Interface	Expansions	1 x microSD (up to 32G)			
Power	Power Adapter	5V/2.1A/10.2W			
rowei	Battery	3.7V 3600mAh			
	Operating Temperature	-10°C ~ 50°C			
	Storage Temperature	-20°C ~ 60°C			
Environment	Humidity	5%~95%, non-condensing			
	IP Protection	IP 64			
	Drop Survival	1.2m			
Pysical Characteristics	Dimensions (LxWxH) (mm)	139 x 99.3 x 22.8			
Characteristics	Weight	297g			

#### **Packing List**

Automation Panel Solutions

Item	Part No.	Q'ty
Adapter	63040-330010-000-RS	1
Cable	32001-008501-100-RS	1
Earphone	30900-000003-RS	1

#### Ordering Information

PACSmate Medical Solutions

Part No.	Description
ICECARE-05-HF-R10	5" TFT-LCD tablet with TI Sitara™ AM3715 CPU, Wi-Fi/Bluetooth, HF RFID, 5-megapixel camera, Android 4.1.2 OS, RoHS
ICECARE-05-ET-R10	5" TFT-LCD tablet with TI Sitara™ AM3715 CPU, Wi-Fi/Bluetooth, 5-megapixel camera, Android 4.1.2 OS, RoHS
ICECARE-05-UHF-R10	5" TFT-LCD tablet with TI Sitara™ AM3715 CPU, Wi-Fi/Bluetooth, UHF RFID, 5-megapixel camera, Android 4.1.2 OS, RoHS

#### Model Variations

-	Hodel variations										
	Part No.	Touch	Wireless	Bluetooth	3.75G	GPS	HF RFID	UHF RFID			
	ICECARE-05-HF-R10	Capacitive touch	802.11a/b/g/n	Ver. 4.0	N/A	N/A	Yes	N/A			
	ICECARE-05-ET-R10	Capacitive touch	802.11a/b/g/n	Ver. 4.0	N/A	N/A	N/A	N/A			
	ICECARE-05-UHF-R10	Capacitive touch	802.11a/b/g/n	Ver. 4.0	N/A	N/A	N/A	Yes			

# AVL-3000

#### **Advanced Auto Data Server**

- Intel® Atom™ N2600 1.6GHz CPU
- Powered by Windows® Embedded Standard 7 E (WES7E)
- Built-in 2.5" 16 GB SATA SSD
- Built-in Wi-Fi, Bluetooth, HSUPA, and GPS
- Built-in VGA Output and NTSC/PAL/SECAM Video Capture
- Supports On-Board Diagnostics (OBD)
- Optional Dual SIM
- Optional UHF RFID reader module



















#### **Advanced Auto Data Server with Upgraded Tracking and Surveillance Function**

The AVL-3000 comes integrated with a remote on-line and real time diagnostic system for vehicles via HSUPA/GPRS/GSM, Global Position System (GPS) and On-Board Diagnostics System (OBD) technologies.

The AVL-3000 provides video/audio capture and recording functions. With the codec solution, the AVL-3000 offers enhanced data streaming performance. Optional functions include UHF RFID Readers for a wide range of industrial and commercial applications, including supply chain management, asset tracking, authentication and access control. These complete advanced functions make an Auto Data Server suitable for accurate vehicle tracking, security, monitoring, and data collection.

IEIMobile Solutions



Automation Panel Solutions

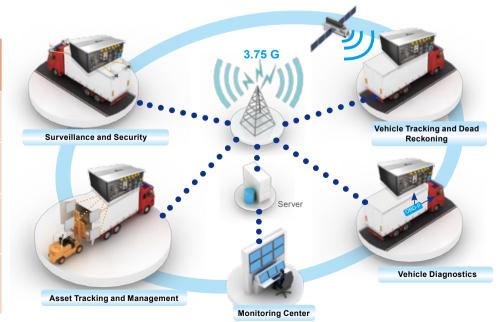
PACSmate Medical

Optional

CPU	eMenlow	Cedarview
	Z510 1.1 GHz	N2800 (optional) N2600
os	Windows® XP Embedded	Windows® 7 Embedded
Memory	DDR2 533MHz (2 GB max.)	DDR3 1066MHz

AVL-2000

AVL-3000





#### **Extended Connectivity**

#### Multi-Channel Real Time Video and Audio Capture Applications

The AVL-3000, featuring multi-channel real time video and audio capture capabilities, is desinged to meet the requirements of modern security systems in the transportation industry. It can reduce loss and damage to goods and assets while increasing the safety of drivers at the same time. The AVL-3000 SDK contains a library of four active channels video demo program, allowing quick and easy customization of audio/video preview and capture applications.

#### **Key Features**

- Internal 4-channel video decoder and audio ADC
- High quality proprietary fast video locking system for non-real-time application
- Supports 4-channel D1 video plus 1-channel audio simultaneously with independent channel control
- Dynamic synchronization: video processing; multiple video format output supports Y422, Y420, IYUI/Y411, Y41P, RGB555 and RGB565
- Dual support for Direct Show and Direct Draw
- Accepts all NTSC(M/N/4.43) / PAL(B/D/G/H/I/ K/L/M/N/60) / SECAM standards with auto detection



# **Hardware Compression Card**

The hardware compression card is a specialized hardware that can process video and audio information and enable the system to run smoothly at the same time. It decreases loading on the CPU and offers a stable solution for high-end vehicle tracking and monitoring applications.

Interface	PCI-104	
Video Input	4 x pin	
Display Video Resolution	NTSC 352 x 240 @30fps	PAL 352 x 288 @25fps
Recording Video Format	H.264 Baseline Profile	
Recording Video Resolution	NTSC 720 x 480 @30fps (Max.)	PAL 720 x 576 @25fps (Max.)



#### **UHF RFID Readers**

The AVL-3000 extends the benefits of UHF RFID technology to in-vehicle applications via the long range UHF RFID readers which are ISO 18000-6C standard complaint and suitable for industrial warehouse management. It can be used in any harsh environment or temperature. It also supports error-free read performance in vehicles. The non line-of-sight tag reading is effectively used in item level identification, warehouse logistics, and security access management. The AVL-3000 SDK contains libraries to read, write, lock and kill RFID tags, which can be easily integrated into software applications.

#### **Key Features**

- High gain, high performance
- Easy installation
- UV resistance
- IP 65 waterproof and dustproof
- Pole mount & wall mount available



IEIMobile Solutions

2

Automation Panel Solutions

PACSmate Medical

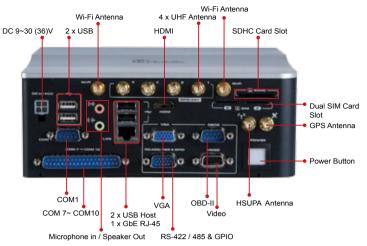
Optional

Optional Peripherals



#### **Specifications**

Model		AVL-3000
	CPU	Intel® Atom™ N2600 1.6GHz processor
	Chipset	Intel® NM10
0	Operating System	Windows® Embedded Standard 7 E (WES7E)
System	Memory	2GB 800 MHz DDR3
	Storogy	1 x Built-in 16GB 2.5" SATA SSD
	Storagy	1 x SDXC Slot for data storage
	Wireless LAN	802.11b/g/n
	Bluetooth	Bluetooth V2.0+EDR (class I)
	3.75G	HSUPA/UMTS-800/850/900/1900/2100 MHz
Communication		Quad-band EDGE/GPRS
		GSM-850/900/1800/1900 MHz
		Dual-band EV-DO/CDMA
	GPS	GPS
		Supports single module dual SIM
Data Collection	RFID	Read-Write Capable ISO18000-6C UHF module ETSI/FCC
Multimedia	Audio	1 x MIC IN 1 x Line-out
	Camera	4 x Channel camera D1 120FPS
LED Indicator		1 x Power LED
Power	Power Input	Cigarette lighter power cable DC 9~30 (36)V
	Vehicle Power	ACC Power Cable
		4 x USB
		1 x OBD-II
		6 x COM port: DB-9 (COM1), RS-422/485 (COM4, 4-PIN), DB-37 (COM7~COM10)
		1 x GbE RJ-45 LAN
I/O Interface		1 x VGA support up to 1920 x 1200
interiace		4 x VIDEO IN
		1 x 8-bit Digital I/O (selectable by software) 4 x DI 4 x DO
		1 X RJ-11 3.5G Voice
		1 x HDMI
Environment	Operating Temperature	-20°C~70°C
	Storage Temperature	-30°C ~80°C
	Humidity	5%~95%, non-condensing
	Drop Survival	ISO 16754
	Certification	CE/FCC/e-Mark
Physical	Dimensions (LxWxH) (mm)	200 x 150 x 76
Characteristics		



#### **Ordering Information**

Part No.	Description
AVL-3000-N26-R10	Vehicle PC Box with Intel® Atom $^{\text{TM}}$ N2600 1.6GHz CPU, WES7E OS, 2GB SDRAM, 16GB 2.5" SSD, 802.11b/g/n Wireless, HSUPA, OBD-II, GPS, RoHS
AVL-3000-N26-HC-R20	In Vehicle PC Box with Intel® Atom™ Cedarview-M N2600 1.6GHz CPU, 2GB SDRAM, GbE LAN, 802.11b/g/n Wireless, Bluetooth, Qualcomm HSUPA, GPS, OBD-II, 4CH UHF RFID, 4CH HW compression Video Capture, RoHS

#### **Packing List**

Item	Part Number	Quantity
GPS/3.75G Integrate Antenna	32506-000100-100-RS	1
Wi-Fi Antenna	32505-000400-100-RS	2
ACC Power Cable	32002-001900-100-RS	1
User Manual CD-ROM	7B000-000568-RS	1
IEI One Key Recovery CD	IEI-7B000-000478-RS	1

#### **Optional Accessory List**

Item	Part Number
Cigarette Lighter Power Cable	32002-001800-100-RS
RS-232 Cable	32005-000200-200-RS
Capture Cable	32007-001400-100-RS
OBD-II Cable	32025-000300-100-RS
J1939 Cable	32025-000400-100-RS
UHF RFID Antenna w/Cable (PATCH Antenna 915MHZ)	AVL-2000PLUS-FCC01-R10
UHF RFID Antenna w/Cable (PATCH Antenna 867.5MHZ)	AVL-2000PLUS-ETSI01-R10
Power Adapter	IVIPOWER-4PIN-R10

































