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



















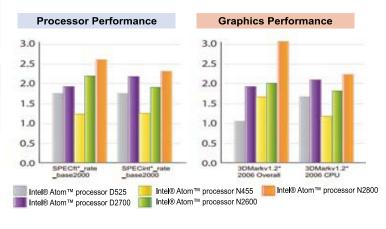




High Performance, Low Power Consumption CPU for Fanless Design

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)) 1.6 GHz (N2600) 1.85 GHz (N2800)			
Process Technology / Packing Size	45-nm / 22x22	32-nm / 22x22			
Graphics Base Frequency	200 MHz (N455) 400 MHz (D525)	400 MHz (N260 640 MHz (N280			
Memory Technology	DDR3 667 (N455) DDR3 800 (D525)				
Max Memory Capacity			2GB (N2600) 4GB (N2800)		
CPU / TDP	D525 / 13W	N2600 / 3.5W	N2800 / 6.5W		
Chipset / TDP	ICH8M / 2.4W	NM10 / 1.5W	NM10 / 1.5W		
Power kit / TDP	Power / 7W	Power / 3W	Power / 3W		
Total 22.4W 8W 11W		11W			

2 Automation

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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.



mSATA Storage

mSATA SSD leverages the speed and reliability of the SATA interface, providing high-performance and costeffective 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.

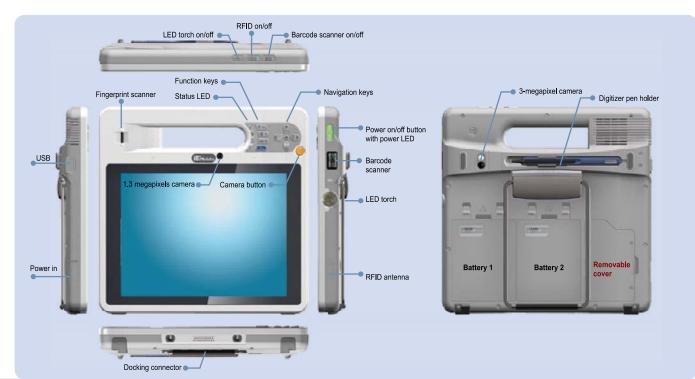


Integrated Dual Camera

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.







2 Automation

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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 screws

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.



100mm x 100mm VESA Mount

VESA Mounting Retention Screw Holes (Docking Station)

2 Automation Pane

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Optional Peripherals

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		
Brightn (cd/m²) Max Resolu	LCD Size			10.4" TF	T LCD				
	Brightness (cd/m²)			350 cd	//m²				
	Max Resolution			1024 x 768 p	ixels XGA				
	Viewing Angle			88/88/88/8	88 Deg.				
	Touch Screen			Resistive Support Mult	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	0			
	Chipset		Intel® ICH8M			Intel® NM10			
System	Operating System	Microsoft® Win	dows® Embedded Standa	rd 7 P (WS7P)	Microsoft® Wind	dows® Embedded Standar	d 7 P (WS7P)		
	Memory	13	33MHz 2GB DDR3 SDRA	М	133	33MHz 4GB DDR3 SDRAM	Л		
	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)	Blue	etooth V3.0 + EDR (Class	lass 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	3-megapixel and LED Light			gapixel CMOS camera (Fr gapixel CMOS camera (Re			
Data Collection	Barcode	1D/2D Imager	Scan Engine	N/A	1D/2D Image	N/A			
	RFID	13.56 MHz RFID sup ISO14443A/		N/A	N/A 13.56 MHz RFID supports ISO 15693 and B compliant		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		5-way Navigation key/ Camera/Wi-Fi/Bluetooth/ SAS/Function Key	Barcode Scanner/RFID/L	-way navigation key/ ser/RFID/LED Torch/Camera/Wi-Fi/ tooth/SAS/Function Key 5-way navigation key Camera/ Wi-Fi/ Bluetooth/ SAS/ Function Key			
	USB		1 x USB 2.0			1 x USB 3.0			
I/O Interface	LAN		1 x 10/100 Mbps						
no menace	Audio		1 x 2W Speaker, 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 +60°C							
Humidity		5%~95% non-condensing							
Environment	Drop Survival	90 cm							
	Environmental Protection	IP 64 compliant 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		



Ordering Information

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Part No.	Description				
ICEFIRE: Intel® Atom™ D525 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™ N2800 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	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 CPU with Windows® Embedded Standard 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 Statio

Smart Card Reader

Battery Pack

12V Power Adapte

19V Power Adapt

er Pen St

Stylus

Optional Accessory List

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Item	Part No.	Description
Darling Otation	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
1 ower / taupter	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

Medical Solutions

