Automatic Identification and Data Capture (AIDC) Technology

Near Field Communication (NFC) Technology



Comparison of Short-range Communication Technologies

Technology	Standard	Frequency	Range	Data Rate
	Standard Frequency ISO 10536 13.56 MHz ISO 14443 13.56 MHz ISO 15693 13.56 MHz ECMA-340, 352, 356, ISO/IEC 13.56 MHz ISO92, 2148, 1ETSI TS 102 190 13.56 MHz IrFM 405 THz-300 GHz 20 cr Bluetooth V4.0 2.4 GHz	0~2 mm	9.6 Kbps	
RFID	ISO 14443	13.56 MHz	0~10 cm	106, 212, 424 Kbps
	ISO 15693	13.56 MHz	0~70 cm	26 Kpbs
NFC	ECMA-340, 352, 356, ISO/IEC 18092, 2148, 1ETSI TS 102 190	13.56 MHz	0~20 cm	106, 212, 424 Kbps
Infrared	IrFM	405 THz-300 GHz	20 cm~30 cm low power to 1 m~2 m $$	9.6 Kbps~4 Mbps
Bluetooth	Bluetooth V4.0	2.4 GHz	10 m-100 m	720 Kbps

- NFC, as an open platform technology, is standardized in the NFC Forum, which was found by Philips (MIFARE®), Sony (FeliCa™), Samsung and Nokia.
- NFC is based on and the extension of RFID. It operates on 13.56 MHz frequency and is compatible with today's field proven contactless MIFARE® and FeliCa[™] smart cards
- NFC communication range is up to 10 cm.
- NFC standard supports different data transmission rates such as 106 kbps, 212 kbps, and 424 kbps.

Three NFC Application Families

The Near Field Communication (NFC) extends the RFID technology, and utilizes the 13.56MHz frequency to communicate and exchange data between devices which are in close proximity (less than 10cm) to each other. Popular applications include payment, gaming, and social networking (e.g. mobile gaming and device-to-device communication).



Card Emulation Mode

An NFC-enabled device acts as a reader when in contact with tags. In this mode, the device can act as a tag or a contactless card for existing readers.



Peer-to-peer Mode Two NFC-enabled devices can exchange data. Peer-to-peer mode is standardized on the ISO/IEC 18092 standard.



Reader/Writer Mode The NFC enabled device can read or write data to any of the supported tag types in a standard NFC data format.



Commerce Mobile Payment



Soical Networking Data Exchange P2P



Healthcare Devices



Automobile Security Key Car Transponder





IoT Appliances

IEIMobile-Intro-2017-V10



Logistics Goods Tracking



Gaming Toys Interactive Toys



Communication Easy Pairing



Secure Identity Door Access

Automation Panel Solutions

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Healthcare Panel PC Solution

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Radio Frequency Identification (RFID)

The RFID technology uses radio frequency as a data transmission intermediary. It can be classified by the frequency band the RFID system adopts since different frequencies will result in different physical attributes.

Frequency band	Operating range*	Applica	tions	Benefits	Drawbacks
LF, < 135KHz	< 0.5m	Access control Product authentication	Animal tracking	Works well around water and metal	Short read range Slower read rate
HF, 13.56MHz	< 1m	Smart cardsAirline baggage	Library books	Low cost	Higher read rate than LF
UHF 860MHZ to 930MHz	< 4m	 Pallet tracking Parking lot access 	Carton tracking	EPC standard built around this frequency	Does not work with items of high water or metal content
Microwave 2.4GHZ	< 1m	Airline baggage Electronic toll collection		Most expensive	Fastest read rates

* The operating range depends on reader power and operating environment

HF RFID and NFC Supported Models

NP				
	IKARPC-07A	ICECARE-10W	ICEROCK3	MODAT-532A
Size	7"	10.1"	10.1"	5.3"
Protocols supported	-ISO/IEC 14443A, ISO/IEC 14443B PCD 106 kbit/s to 848 kbit/s -ISO/IEC 14443A, ISO/IEC 14443B PICC 106 kbit/s to 424 kbit/s -ISO/IEC 14443B PICC 106 kbit/s to 424 kbit/s -ISO/IEC 14443B PICC 106 kbit/s -ISO/IEC Forum tags (MIFARE® Ultralight, Jewel, FeliCa™ open tag, ISO/IEC 14443-4) -Reading DESFire card -ISO/IEC 15693/ICODE reader -ISO/IEC 15693/ICODE reader -ISO/IEC 15693/ICODE reader -ISO/IEC 15693/ICODE reader -ISO/IEC 18092 / ECMA340 and ISO/IEC 21481/ECMA 352) 106 kbit/ s to 424 kbit/s -B' and MIFARE® card emulation -ISO/IEC 18092 /	 Supports ISO/IEC 14443A R kbit/s Supports ISO/IEC 14443B R kbit/s Supports contactless commu FeliCa™ protocol at 212 kbi Supports MIFARE® encrypti Typical operating distance in communication to ISO/IEC 1 14443B or FeliCa™ cards u antenna size and tuning 	eader/Writer mode up to 848 eader/Writer mode up to 848 unication according to the t/s and 424 kbit/s on Read/Write mode for I4443A/MIFARE®, ISO/IEC p to 50 mm depending on	Reader Features (106k-848Kbits/s) -Support ISO 15693-Support ISO 14443A -Support NFC Forum Type 1-4 Tag -Card Emulation Mode (106K-848Kbits/s) (optional) -Support ISO 14443A -Support NFC Forum Type 1-4 Tag -Support MIFARE® via CLT -Near Field Communication (106K-424Kbits/s) -Peer to Peer Active/Passive mode -ISO 18092 compliant
	rs			galaxy and an an an

AFL2-xxxA Series Size 7" ~22" Protocols •ISO14443A/B 106kbps/212 kbps/424 kbps/848 kbps supported •ISO15693



POG-W2ZA-R81	1
22"	· Distance.
ISO/IEC 14443A/MIFARE® Reader/Writer	This I where the
•FeliCa™ Reader/Writer	Section and the section of the secti
ISO/IEC 14443B Reader/Writer	
·ISO/IEC 14443A/MIFARE® Card MIFARE® 1 KB or MIFA	ARE® 4 KB emulation
•FeliCa™ Card emulation	

•ISO/IEC 18092, ECMA 340 Peer-to-Peer

UHF RFID Supported Models

Dedicated to the AIDC technology, IEIMobile now offers range of products with the UHF RFID reader solution. I order to ensure the quality performance of our UHF RFIE readers, a series of tests were performed during th Design Quality Validation stage of product development.

а			IVS-100-BT	
n		Frequency (MHz)	840 ~ 960	
C		Maximum Power Output (dBm)	30	
е	Characteristics	Antenna (Circular/Linear) Polarization	Circular	Cale.
		Tag Support	EPC C1 Gen2 / ISO 18000)-6C, ISO 18000-6B
		Maximum Reading Distance (m)	>12	
	Test Items	Maximum Reading Speed (tags/ sec)	14	

Reading Distance Test

In the reading distance test, a tag is located at the center of the room while the UHF RFID reader is located at different distances and angles from the tag. The tag is read at different distances until it cannot be detected anymore.

Reading Speed Test

In the reading speed test, the UHF RFID device is placed in front of a wall (4m x 2m) covered with UHF RFID tags that are located in both horizontal and vertical directions. The number of tags read in one minute is recorded to calculate the overall reading speed.





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System



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Tag

Ultra High Frequency (UHF) RFID Tags
IEI provides the design and business case for ODM tag projects. That includes comprehensive passive Ultra High Frequency (UHF) RFID tags which are specially designed to operate and store under a wide range of temperatures. With an outstanding read distance and reading multiple items indentification, the ultra high frequency RFID tag provides a cost-effective solution for applications such as anti-counterfeiting and stock identification on high value products (wine, jewelry). 37

	-	and the second s		
	UHF Metal Asset Tag	UHF Tag	UHF Jewelry Tag	UHF (Heat-resistant) Tag
Frequency	860 to 960MHz	860 to 960MHz	860-960 MHz	860-960 MHz
RF Air Protocol	EPC Class1 Gen2 ISO18000-6C	EPC Class1 Gen2 ISO18000-6C	EPC Class1 Gen2	EPC Class1 Gen2
Functionality	Read/write	Read/write	Read/write	Read/write
Operating Mode	Passive	Passive	Passive	Passive
Read Distance	Up to 10m (read dependent)	8 m	0.3 m	1 m
Applications	Animal management	Retail management, asset tracking, inventory control	Asset tracking, security management	Warehouse and retail management, asset tracking, inventory control
Storage Temperature	-40°C to 85°C	-40°C to 85°C	-20°C to 65°C (Non-condensing)	-40°C to 85°C (120 Short-term)
Dimensions	52.5 mm x 45 mm x 14.0 mm	95 mm x 8mm	72 mm × 34 mm	64 mm × 7 mm

HF RFID Sensor Tags plus Data Logger

IEI provides various RFID sensor tags plus data logger for long-term temperature, humidity, vibration, ambient light and GPS recordings. The RFID tags can use an SD card as a mass storage media which can store 134 million points and are targeted at frozen food environment monitoring, humidity monitoring and transportation GPS tracking applications. Besides, IEI also provides GSM GPS tag which is designed to work for long-term GPS record. The data is recorded on the device or transferred to end user's mobile phone via SMS message. Meanwhile IEI provides an application which can be downloaded from Google Play for Android phone and the GPS data can be uploaded to a NAS for data management.

Shipme GSM GPS Tag	Vibration Sensor Tag	Tr	ansportation		Irrival Contemporation MODAT-532 Handy readed	Collected data	NAS NAS
			> 🥎				lado iEi.
Model Number	RFID-TP-D-ST-R10	RFID-VB-D-ST	-R10 RFID-AL-D-ST-R10	0 RFID-HT-D-ST-R10	RFID-GPS-D-ST-R10	RFID-STP-D-ST-R10	RFID-TP-N-ST-R10
Function	Temperature sensor tag	Vibration sensor	r tag Ambient light sensor ta	ag Humidity and temperature sensor tag	GPS	Slim RFID temperature sensor plus data logger	RFID temperature sensor tag
Accuracy	0.5°C~1.0°C	±3.9mg	±4 LUX	Relative humidity ±2% Temperature ±0.2°C	<3m	0.5°C~1.0°C	0.5°C~1.0°C
Max Storage	134,217,724 points	134,217,724 po	ints 134,217,724 points	134,217,724 points	67,108,862 points	3423 points	1 point
Time Stamp	Yes	Yes	Yes	Yes	Yes	Yes	No
FRID Frequency				13.56 MHz			
RF Air Protocol				ISO 15693			
PC Interface			USB 2.0	mass storage device			N/A
Applications	Frozen food environment monitor	Transportation que Machine abnorm	uality Environment monitor nality	Environment monitor	Transportation tracking	Frozen food environment monitor	Frozen food environment monitor
			-				
Model Number	GSM-TP-D-ST-R	10	GSM-GPS-D-ST-R10	NTAG-T-200-R10	GSM-TP-RD-	-R10 GS	SM-GPS-RD-R10
Function	GSM temperature	tag	GSM GPS tag	NTAG	GSM temperature	e reader 0	SSM GPS reader
Accuracy	0.5°C (max) from 0°C 1 1.0°C (max) from -40°C	to 65°C to 125°C	<3m	0.5°C (max) from 0°C to +65°C1.0°C (max) from -40°C to +125°C	C N/A		N/A
Max Storage	4GB		4GB	1 record	2MB		2MB
Time Stamp	Yes		Yes	No	N/A		N/A
FRID Frequency	13.56 MHz		13.56 MHz	13.56 MHz	13.56 MH	z	13.56 MHz
RF Air Protocol	ISO 15693		ISO 15693	ISO/IEC 14443, NFC Forum Tag 2 Type	GSM/GPRS, 2G, C	auadBand GSM/	GPRS, 2G, QuadBand
PC Interface	USB 2.0 mass storage	device US	B 2.0 mass storage device	No	USB 2.0		USB 2.0

NFC Temperature Tag

The NFC temperature tag is designed for someone who need to record real time temperature. The NFC tag supports a range from -20°C to 60°C and fully supports IP 68 for harsh environments. Besides, it is a battery-free design for long term usage. The user can use MODAT-532A to read data from NFC tag and upload to the database on QNAP NAS. IEI develops an application for both Modat-532A and QNAP NAS. Users can easily grape data and temperature chart.



ElMobile

Automation Panel Solutions Healthcare Panel PC Solution Healthcare Panel PC Solution

6

Automation Control

Optional Peripherals

1D/2D Barcode Capability

Mobile Barcode Reading

The embedded Honeywell or Motorola scan engine, which is a decoded miniature area imaging scan engine designed to scan 1D and 2D barcodes, features a megapixel imaging sensor, a wide angle lens design, the integration of illumination and aiming function, and an industrial leading decoding software to deliver fast and aggressive scanning performance.

- Accurately decodes all 1D and 2D codes, even wrinkled, damaged or poorly printed
- Large scanning area
- Fast scan rate

codes all 1D and 2D codes	s, even wrinkle
g area	

Technology	1D Barcode	2D Baro
Reading Condition	20 to 25 characters	100 to a
Symbologies	EAN/UPC, RSS, Code 39, Code 128, UCC/EAN 128, ISBN, ISBT, Interleaved, Matrix, Industrial and Standard 2 of 5, Codabar, Code 93/93i, Code 11, MSI, Plessey, Telepen, postal codes.	Data Ma 417, Ma compos





MODAT-532A ICECARE-10W

IEI Cloud Mobile POS Solution

IEI Cloud Mobile POS solution suits for any devices such as PDA, tablet, PC with IOS, Android or Windows operating system. The database can be stored in your own devices and also backed up on the cloud database. It includes staff management, cash register and member database. Easy to control your retail shops, restaurants, temporary market. We also provide data analytics of sales revenue, consumer behavior, store comparison etc. You may manage all of your businesses from everywhere anytime through the Internet to the Cloud POS.



Our Dedicated Product Lines

Tablet PC

ICE Series -Your cutting-edge digital assistant

With a focus on ergonomic design and features, the ICE series tablet PC offers versatility in application and field-proven durability.

The ICE Series tablet PC features exceptional ergonomics, industrial sealing and high drop resistance for withstanding the most extreme industry-specific environment. Our obsessive attention to detail and passion for quality create a winning formula that promises to delight and inspire your staff on-the-go. It is the ultimate productivity tool for field services.

Industrial PDA

MODAT Series -Your data manager on the go

The Modat series industrial PDA brings real-time mobile computing and cost-effective mobility in one customizable, robust package.

The Modat Series, provides a total wireless solution with Android operating system. The Modat Series industrial PDA features a full range of wireless communication options and optimal suites of data capture technologies in one lightweight, versatile and robust package. It is specially suited to solutions in the retail, hospitality and logistics environments.



Automation Panel Solutions



Tablet PC Selection Guide







Model		ICEROCK3	ICECARE-10W	ICEFIRE2
	LCD size	10.1" TFT LCD	10.1" TFT LCD	10.4 TFT LCD
	Brightness (cd/m ²)	350	350	350
Display	Max Resolution	1280 x 800	1280 x 800	1024 x 768
	Viewing Angle	85/85/85/85 Deg.	85/85/85/85 Deg.	88/88/88 Deg.
	Touchscreen	Projected capacitive type	Projected capacitive type	Projected capacitive type
	Digitizer	N/A	N/A	2048 levels @ full scale Pressure Resolution
	CPU	Intel® Celeron® 1007U or Intel® Core™ i7-3517UE	Intel® Celeron® 1007U or Intel® Core™ i7-3517UE platform	Intel® Atom™ N2800 1.86GHz
System	Chipset	Intel® HM76	Intel® HM-76	Intel® NM10
System	Operating System	Windows® Embedded Standard 7 P	Windows Embedded Standard 7	Microsoft® Windows Embedded Standard 7 P(WS7P)
	Memory	4.0 GB DDR3 SDRAM on board and optional 4.0 GB DDR3 SDRAM SO-DIMM	On-board 4GB DDR3	1333MHz 4GB DDR3 SDRAM
	Storage	mSATA 32GB MLC	mSATA 32GB MLC	mSATA 8G SLC
	Wi-Fi	Wi-Fi 802.11b/g/n	Wi-Fi 802.11b/g/n	Wi-Fi 802.11b/g/n
Communication	Bluetooth	Bluetooth 3.0	Bluetooth 3.0	Bluetooth 3.0
	Modem	WCDMA/HSUPA	WCDMA/HSUPA	WCDMA/HSUPA
	GPS	GPS with internal antenna	N/A	N/A
	Camera	1.3-megapixel front camera 5-megapixel rear camera	N/A	1.3-megapixel front camera 3-megapixel rear camera
Data Collection	Barcode	1D/2D imager scan engine	1D/2D imager scan engine	1D/2D Imager Scan Engine
	RFID	13.56 MHz RFID supports ISO 14443A/B (MIFARE®, FeliCa™)	13.56 MHz RFID supports ISO 14443A/B (MIFARE®, FeliCa™)	13.56 MHz RFID supports ISO 15693 and 14443A/B compliant
	LED Indicators	Battery charging/peripheral device/storage/ wireless device	Battery Charging/Peripheral Device/Storage/ Wireless	Power/ Wi-Fi/Bluetooth/ RFID/Battery Status LED
Indicators & Buttons	Hot Keys	1 x Power button 2 x Hot keys 1 x iMenu	1 x Power button 1 x IEI menu	5-way navigation key Barcode scanner/ RFID / LED Torch/ Camera/ Wi-Fi/ Buetooth/ SAS/Function Key
	USB	3 x USB 3.0 1 x SIM card slot	2 x USB 2.0	1 x USB 3.0
	Micro HDMI	1 x Micro HDMI	1 x Micro HDMI	N/A
I/O Interface	Audio	1 x Headphone 1 x Mic-in 2 x Speakers (1 W)	1 x Speaker (1.5 W) 1 x Audio mic-in	1 x Speaker (2 W)
	Expansion	1 x SD card (internal)	Smart card reader Magnetic stripe reader	1 x LED torch
Power	Power Adapter	Input AC: 100~240V Output DC: 19V / 3A	Input AC: 100~240V Output DC: 19V / 2.1A	12V @ 5A @ 60W
rower	Battery	40 W standard battery pack 40 W optional battery pack	14.8V 3500mAh, 51.8WH	Dual 11.1V 1880mAh Li-ion Battery
	Operating Temperature	0°C~40°C	0°C~40°C	0°C ~ 40°C
	Storage Temperature	-20°C~60°C	-20°C~60°C	-10°C ~ 60°C
Power	Humidity	5%~95%, non-condensing	5%~95%, non-condensing	5%~95% non-condensing
	Drop Survival	1.2M	1M	90 cm
	Environmental Protection	Front panel: IP65 Back side: IP64	IP 54 compliant front panel	IP 64 compliant front panel
	Cerification	CE / FCC Class B / FCC ID /Rohs compliant	CE / FCC Class B / FCC ID /Rohs compliant	CE/FCC
Physical	Dimensions (W x H x D) (mm)	297 x 234 x 32	290 x 206.5 x 22.5	270 x 265 x 29
Characteristics	Weight	1.9 kg	1.1 kg	1.7 kg













www.ieimobile.com

ICEROCK 3

Ultra Tough Assistant





Features

- 10.1" 350 cd/m² TFT LCD with capacitive touch
- Intel® Celeron® 1007U or Intel® Core™ i7-3517UE platform
- Powered by Windows® Embedded Standard 7 P
- Bluetooth, Wi-Fi, 3.75G wireless with GPS
- 1D/2D barcode reader, 13.56MHz RFID reader
- 1.3-megapixel CMOS front camera and 5-megapixel CMOS rear camera
- Built-in hot-swappable battery
- Optional Windows 8 operating system



Specifications

IEIMobil Solution

Automation Panel Solutions

> 3 lealthcare Panel PC Solution

> Industrial System

ORing Network municatior

LCD Size 010117T LCD Binghness (c) 350 Max Resolution (HxV) 1280 x 800 Vewing Angle 080880850 Deg. Touchscreen 080880850 Deg. System CPU 080880850 Deg. CPU 080880850 Deg. System CPU 08080850 Deg. System CPU 08080850 Deg. System CPU 08080850 Deg. System CPU 0808070 AV or load BDC SDRAM SO-DMM System Stonge 0808070 AV or load ave optional 4.0 GB DDRS SDRAM SO-DMM Biolocon Stonge 0808070 AV or load ave optional 4.0 GB DDRS SDRAM SO-DMM Biolocon Stonge 0808070 AV or load ave optional 4.0 GB DDRS SDRAM SO-DMM Biolocon Stonge 0808070 AV OR DWARD SDRAM SO-DWAM Biolocon Biolocon 0808070 AV OR DWARD SDRAM SO-DWAM Biolocon Stonge Stonge Biolocon COUNTSTREEND SUPORTSTREEND SUPORTSTR	Model		ICEROCK3				
BigIptense (cdm ²) 360 Display Max. Resolution (HkV) 120.0 X000 Vewing Angle 6.0000 8.0000,0000 Toutscreen 0.0000,0000 Poile System CPU 1.0000,0000,0000 Poile CPU 0.0000,0000,0000,0000,0000,0000,0000,0		LCD Size	10.1" TFT LCD				
Display Max Resolution (HxV) Call Call Call Call Call Call Call Call	Display	Brightness (cd/m ²)	350				
Network Angle Genetic Control Touchscreen CPU Intel® Caleron® 1007U or Intel® Cure" 17-5317UE System CPU Intel® Caleron® 1007U or Intel® Cure" 17-5317UE System CPU Intel® Caleron® 1007U or Intel® Cure" 17-5317UE Memory 4.0 GB DDR3 SDRAM on board and optional 4.0 GB DDR3 SDRAM SO-DIMM Storage 3.0 GB DDR3 SDRAM on board and optional 4.0 GB DDR3 SDRAM SO-DIMM More GB DDR3 SDRAM on board and optional 4.0 GB DDR3 SDRAM SO-DIMM More GB DDR3 SDRAM on board and optional 4.0 GB DDR3 SDRAM SO-DIMM More GB DDR3 SDRAM on board and optional 4.0 GB DDR3 SDRAM SO-DIMM More GB DDR3 SDRAM on board and optional 4.0 GB DDR3 SDRAM SO-DIMM More GB DDR3 SDRAM on board and optional 4.0 GB DDR3 SDRAM SO-DIMM More GB DDR3 SDRAM on board and optional 4.0 GB DDR3 SDRAM SO-DIMM More GB DDR3 SDRAM ON DOARD AND SORT MARKERS More GDR3 SDRAM ON DOARD AND SORT MARKERS, ExtGL MARKER		Max. Resolution (HxV)	1280 x 800				
Function Function CPU Intel® Celeron® 1007U or intel® Core System CPU Intel® Celeron® 1007U or intel® Core System Chipset Intel® Celeron® 1007U or intel® Core Memory 4.0 GB DDR3 SDRAM to beard and optional 4.0 GB DDR3 SDRAM SO-DIMM Memory 4.0 GB DDR3 SDRAM board and optional 4.0 GB DDR3 SDRAM SO-DIMM Memory 4.0 GB DDR3 SDRAM SO-DIM 4.0 GB DDR3 SDRAM SO-DIMM Memory 4.0 GB DDR3 SDRAM SO-DIM 4.0 GB DDR3 SDRAM SO-DIMM Memory Memory 4.0 GB DDR3 SDRAM SO-DIM 4.0 GB DDR3 SDRAM SO-DIMM Memory Memory 4.0 GB DDR3 SDRAM SO-DIM 4.0 GB DDR3 SDRAM SO-DIMM Memory Memory 4.0 GB DDR3 SDRAM SO-DIM 4.0 GB DDR3 SDRAM SO-DIMM Memory Memory 4.0 GB DDR3 SDRAM SO-DIM 4.0 GB DDR3 SDRAM SO-DIM 4.0 GB DDR3 SDRAM SO-DIM 4.0 GB DDR3 SDRAM SO D		Viewing Angle	85/85/85 Deg.				
CPU Intel® Calence® 1007U or Intel® Core™ i7-3517UE Chipset Intel® Calence® 1007U or Intel® Core™ i7-3517UE Chipset Windows® Embedded Standard 7 P Memory 4.0 GB DDR3 SDRAM on board and optional 4.0 GB DDR3 SDRAM SO-DIMM Storage 3008 MLC mSATA Wireless LAN Wireless Core™ i7-3517UE Bullcotch Bullcotch 3.0 Modem UUXTSHSUPA Band 1.2, 4, 5, 6, 8 GPS GPS with Internal antenna Data Colloction Barcode Barcode 13.50MB/Hz RFID supports 150 14443AB GPS GPS with Internal antenna Camera Strage scale and gine Strage scale and scale		Touchscreen	Projected capacitive type				
System Chipel Intelle HA76 System Operating System Windows9 Embedded Standard 7 P Memory 4.0 GB DDR3 SDRAM on board and optional 4.0 GB DDR3 SDRAM SO-DIMM Storage 32CB MLC mSATA Wireless LAN Wireless DAM on board and optional 4.0 GB DDR3 SDRAM SO-DIMM Modem 0.00000000000000000000000000000000000		CPU	Intel® Celeron® 1007U or Intel® Core™ i7-3517UE				
System Operating System 4 0 GB DDR3 SDRAM on board and optional 4.0 GB DDR3 SDRAM SO-DIMM Memory 4.0 GB DDR3 SDRAM on board and optional 4.0 GB DDR3 SDRAM SO-DIMM Storage 0.0 GB DDR3 SDRAM Cm SATA Perform Billetooth 0.0 GB DDR3 SDRAM SO-DIMM Billetooth 0.0 GB DDR3 SDRAM SO-DIMM Modem 0.0 GB DDR3 SDRAM SO-DIMM Data Collection Billetooth 0.0 GB DDR3 SDRAM SO-DIMM Data Collection RFID 0.0 GB DDR3 SDRAM SO-DIMM Data Collection RFID 0.0 GB DDR3 SDRAM SO-DIMM Barcode 0.0 UTTS/HSUPA Bard 1, 2, 4, 5, 6, 8 Granera RFID 0.0 MEMPARESO FailCa ") Data Collection RFID 0.0 MEMPARESO FailCa TO SDRAM SD DIMAND Macoce 1.3 Imegapixel fract camera Inflictors & Buttons Keys 2.4 Hol Keys LED Indicators Battery charging/berliperal device/Storage/wireless device Interface Addo 1.3 Headphone Power Adapter 3.4 UBB 3.0 3.4 UBB 3.0 Interface Storage Temperature 3.4 UBB 3.0 Battery <td< td=""><td rowspan="4">System</td><td>Chipset</td><td>Intel® HM76</td></td<>	System	Chipset	Intel® HM76				
Memoy 4.0 GB DDR3 SDRAM on board and optional 4.0 GB DDR3 SDRAM SO-DIMM Storage 32GB MLC mSATA Storage 32GB MLC mSATA Mireless LAN GWSCH MLC MSATA Buetooth Buetooth 3.0 Modem GWSCH MLC MSATA Modem GWSCH MLC MSATA GPS GGPS WIN Internal antenna GPS GGPS WIN Internal antenna Macode 13.56MHz RFID Supports ISO 14443AB (MITARES), FeliCa ¹¹) Arado 13.768gapkel front camera Camera GRS Camera Storage Statutons Keys Storage Statutons LED Indicators & Buttons Keys LED Indicators Battery charging/peripheral device/storage/wireless device LED Indicators Studio LED Indicators Studio Expansions Studio Storage Temperature GPArat Ti X Micro HOM Power Adapter Studio Storage Temperature GPArating Temperature Storage Temperature GPC Concord Storage Temperature GPC Concord		Operating System	Windows® Embedded Standard 7 P				
Storage Storage Storage Virieless LAN Wireless LAN Wireless LIN Bluetooth GB Bluetooth 3.0 Bluetooth GB GB Ordem UMTSHSUPA Band 1.2, 4, 5, 6.8 Base Collection GPS GPS Barcode GDS GPS Camera 115.8MHz RFID supports 150 14443AB Gamera GBS GBS Camera 10.2D imager scan engine Camera State Collection State Collection Indicators & Button State Collection State Collection Keys State Collection State Collection Indicators & Button State Collection State Collection Indicators & Button State Collection State Collection Indicators & State Solution State Collection State Collection Indicators & Button State Collection State Collection Indicators Solution State Collection State Collection Indicators Solution State Collection State Collection Indito		Memory	4.0 GB DDR3 SDRAM on board and optional 4.0 GB DDR3 SDRAM SO-DIMM				
ProverWreess LANWreess LANHuedochGMBuledoch 3.0BuledochGMGMGPSGPS with internal antennaGPSGPS with internal antennaAnageRFIDGMSBroadeGMSGMSCameraGMSGMSBroadeGMSSmegapiker front cameraCameraSmegapiker front cameraCameraSmegapiker front cameraAudoSmegapiker front cameraAudoSmegapiker front cameraAudoSmegapiker front cameraAudoSmegapiker front cameraAudoSmegapiker front cameraAudoSmegapiker front cameraAudoStattery charging/peripheral device/storage/wireless deviceFromeraStattery charging/sectiveless deviceAudoStattery charging/sectiveless deviceFromeraStattery charging/sectiveless deviceAudoStattery charging/sectiveless deviceFromeraStattery charging/sectiveless deviceAudoStattery charging/sectiveless deviceFromeraStattery charging/sectiveless deviceAudoStattery charging/sectiveless deviceAutorStattery charging/sectiveless device <td>Storage</td> <td>32GB MLC mSATA</td>		Storage	32GB MLC mSATA				
Bluetooth Bluetoo		Wireless LAN	Wi-Fi 802.11b/g/n				
Kodem Modem UMTSHSUPA Band 1, 2, 4, 5, 6, 8 GPS GPS GPS with internal antenna Data Collection RFID GPS (GPS with internal antenna Data Collection Barcode GPS (GPS with internal antenna Data Collection Barcode (MIFARES, FeliCa**) Data Collection Keys GPS (GPS with internal antenna Indicators & Buttons Keys Camera LED Indicators Battery charging/peripheral device/storage/wireless device JWO Interface XuBB 3.0 LED Indicators Su USB 3.0 LED Indicator Coutoput DC: 100 / 304	Communication	Bluetooth	Bluetooth 3.0				
FieldGPSGPS with internal antennaParacoline cioneRFID13.650MHz RFID supports ISO 14443A/BData CollectionBarcode10/2D imager scan engineBarcodeCamera1.3.megapixel front cameraCameraSenegapixel front cameraIndicators & ButtonsKeys2.4 Hot KeysLED IndicatorsBattery charging/peripheral device/storage/wireless deviceAutoBattery charging/peripheral device/storage/wireless deviceFrequenciesAuto2.4 Hot KeysFrequenciesSubstance1 x MecinAutoSubstance2.4 Hot KeysFrequenciesSubstance3 x USB 3.0FrequenciesSubstance3 x USB 3.0FrequenciesSubstance3 x USB 3.0FrequenciesSubstance1 x MicrinFrequenciesGenerature400 Westandard battery packFrequenciesGenerature0 CrC-40°CHumidityComerature20°C-60°CHumiditySubstanceFrequenciesFront panel: IP65Humidity CrotectionFront panel: IP65HumidityComeratureFrequenciesFront panel: IP65HumiditySubstanceFrequenciesFront panel: IP65HumiditySubstanceFrequenciesFront panel: IP65HumidityComeratureHumiditySubstanceHumiditySubstanceHumiditySubstanceHumiditySubstanceHumiditySubstance	communication	Modem	UMTS/HSUPA Band 1, 2, 4, 5, 6, 8				
Pata CollectionRFID13.50MHz RFID supports ISO 14443AB (MIFARE®, FeliCa™) (MIFARE®, FeliCa™) (MIFARE®, FeliCa™)Barcode01.3-megapixel front camera 		GPS	GPS with internal antenna				
Pata CollectionBarcodeID/2D Imager scan enginecameracamera1.3-megapixel front camerafindicators & Buttonskeysf.3-megapixel front cameraLED Indicatorskeysf.2 Khot keysLED IndicatorsBattery charging/peripheral device/storage/wireless deviceMatheraf.2 Khot keysAudiof.2 Khot keysLeg IndicatorsBattery charging/peripheral device/storage/wireless deviceAudiof.2 Khot keysAudiof.2 Khot keysKeysf.2 Khot keysAudiof.2 Khot keysKeysf.2 Khot keysKeysf.2 Khot keysKeysf.2 Khot keysKeysf.2 Khot keysAudiof.2 Khot keysKeysf.2 K		RFID	13.56MHz RFID supports ISO 14443A/B (MIFARE®, FeliCa™)				
Indicators & ButtonsCamera1.3-megapikel front camera 5-megapikel rear cameraIndicators & ButtonsKeys1 x Power button 2 x Hot keys 1 x MenuLED IndicatorsEditory charging/peripheral device/storage/wireless deviceIndicators & ButtonsAudioBattery charging/peripheral device/storage/wireless deviceIndicatorsEditory charging/peripheral device/storage/wireless deviceIndicatorsAudio1 x Headphone 	Data Collection	Barcode	1D/2D imager scan engine				
Indicators & ButtonsKeys1 x Power button 2 X Hot keys 1 x Menu 1 x MenuILD IndicatorsBattery charging/peripheral device/storage/wireless deviceILD IndicatorsBattery charging/peripheral device/storage/wireless deviceILD IndicatorsI x Headphone 1 x Mic-inILD IndicatorsAudioILD IndicatorsI x Headphone 1 x Mic-inILD IndicatorsI x MicoILD Indica		Camera	1.3-megapixel front camera 5-megapixel rear camera				
LED IndicatorsBattery charging/peripheral device/storage/wireless deviceImage: Power Powe	Indicators & Buttons	Keys	1 x Power button 2 x Hot keys 1 x iMenu				
NO Interface Audio 1 x Headphone 1 x Mic-in Kolo 2 x 1 W speakers Expansions 3 x USB 3.0 Yower Adapter 3 x USB 3.0 Power Adapter Input AC: 100-240V Battery Power Adapter Vorge Temperature Operating Temperature Storage Temperature 0°C-40°C Humidity 5%-95%, non-condensing Top Survival 12M Physical Dimensions (LxWXH) (mm) Physical Dimensions (LxWXH) (mm)		LED Indicators	Battery charging/peripheral device/storage/wireless device				
I/O InterfaceI/I ContentI/O InterfaceI/I ContentExpansionsI/I ContentI/I ContentI/I ContentPower AdapterI/I ContentPower AdapterI/I ContentBatteryI/I ContentI/I Content <t< td=""><td></td><td>Audio</td><td>1 x Headphone 1 x Mic-in</td></t<>		Audio	1 x Headphone 1 x Mic-in				
Expansions3 x USB 3.0 1 x SIM card slot 1 x Micro HDMIPowerPower AdapterInput AC: 100-240V Output DC: 19V / 3APowerPower AdapterOutput DC: 19V / 3ABatteryOperating Temperature0°C~40°C C Storage TemperatureInput MC: 100-200V Operating TemperatureOperating TemperaturePowerOperating Temperature0°C~40°C C C Storage TemperatureInput MC: 100-200C Operating TemperatureOperating TemperatureInput MC: 100-200C Operating TemperatureOperating TemperaturePowerOperating TemperatureInput MC: 100-200C Storage TemperatureOperating TemperatureInput MC: 100-200C Storage TemperatureOperating TemperatureInput MC: 100-200C Storage TemperatureOperating TemperatureInput MC: 100-200C Storage TemperatureOperating TemperatureInput MC: 100-200C 	I/O Interface		2 x 1 W speakers				
Power Adapter Input AC: 100-240V Output DC: 19V / 3A Battery 400 V standard battery pack 400 V optional battery pack 400 V optional battery pack 400 V optional battery pack Appending Temperature 0°C~40°C Inumidity 60°C~40°C Humidity 1.20°C~60°C Input AC: 100-240V Componential Protection 1.2M Physical Ministry pack Vieght 1.20°C~60°C	no interface	Expansions	3 x USB 3.0 1 x SIM card slot 1 x Micro HDMI				
Power 40 W standard battery pack Battery 40 W optional battery pack 40 W optional battery pack 40 W optional battery pack Poperating Temperature 0°C~40°C Storage Temperature 0°C~60°C Humidity 0 Drop Survival 1.2M Environmental Protection Biteny Physical Dimensions (LxWXH) (mm) Weight 0	Bauwar	Power Adapter	Input AC: 100~240V Output DC: 19V / 3A				
Operating Temperature Operating Temperature Operating Temperature Storage Temperature -20°C~60°C Humidity -20°C~60°C Drop Survival -1.2M Drop Survival -1.2M Environmental Protection Back side: IP64 Dimensions (LxWXH) (mm) -20°C ~60°C Weight -1.2M	Fower	Battery	40 W standard battery pack 40 W optional battery pack				
Storage Temperature Storage Temperature Humidity 50%-95%, non-condensing Drop Survival 1.2M Invironmental Protection Front panel: IP65 Brinensions (LxWxH) (mm) 297 x 234 x 32 Weight 1.9 kg		Operating Temperature	0°C~40°C				
Humidity Mumidity Dop Survival 1.2M Invironmental Protection Front panel: IP65 Brinsons (LxWxH) (mm) Dimensions (LxWxH) (mm) Weight 1.9 kg		Storage Temperature	-20°C~60°C				
Drop Survival 1.2M Environmental Protection Front panel: IP65 Back side: IP64 Dimensions (LxWXH) (mm) 297 x 234 x 32 Weight 1.9 kg	Environment	Humidity	5%~95%, non-condensing				
Environmental Protection Front panel: IP65 Back side: IP64 Physical Dimensions (LxWXH) (mm) 297 x 234 x 32 Weight 1.9 kg		Drop Survival	1.2M				
Physical Dimensions (LxWxH) (mm) 297 x 234 x 32 Weight 1.9 kg		Environmental Protection	Front panel: IP65 Back side: IP64				
Weight 1.9 kg	Physical	Dimensions (LxWxH) (mm)	297 x 234 x 32				
	i iiyəlcal	Weight	1.9 kg				

Optional Peripherals



Model Variations

Part No.	CPU	Touch	IPS	RAM	Wireless	Bluetooth	Barcode	RFID	3.75G	GPS	5M Camera	2nd Battery
ICEROCK3-T10-HU-R11	Celeron 1007U	Capacitive touch	Yes	8GB	802.11 b/g/n	Ver. 3.0	Yes	Yes	Yes	Yes	Yes	Yes
ICEROCK3-T10-ETC-R11	Celeron 1007U	Capacitive touch	Yes	4GB	802.11 b/g/n	Ver. 3.0	N/A	Yes	N/A	N/A	N/A	N/A
ICEROCK3-T10-HUI-R11	i7-3517UE	Capacitive touch	Yes	8GB	802.11 b/g/n	Ver. 3.0	Yes	Yes	Yes	Yes	Yes	Yes

Optional Accessory List

Charging Bay ICEROCK3-CR01-R10 Independent charging bay for ICEROCK3 (with interlocking design)
Combo Card Reader ICEROCK3-3IN1-R10 Smart card reader, magnetic stripe reader, fingerprint reader combo add- on module
Carrying Case 7Z000-ICEROCK3- 10POUCH Protective bag with shoulder strap



Combo Card Reader

Carrying Case



Charging Bay



ElMobile Solutions

Automation Panel Solutions

3

Healthcare Panel PC Solution

Industrial System







Ordering Information

Part No.	Description	ĥ
ICEROCK3-T10-HU-R11	Intel® Celeron® 1007U CPU, capacitive touch, IPS panel, 8GB RAM, 32G SSD, 802.11 b/g/n&BT, RFID, 1.3M/5M camera, 2nd battery, GPS, barcode, 3.75G, WS7P, RoHs	ł
ICEROCK3-T10-ETC-R11	Intel® Celeron® 1007U CPU, capacitive touch, IPS panel, 4GB RAM, 32G SSD, 802.11 b/g/n&BT, RFID, 1.3M camera,WS7P, RoHs	
ICEROCK3-T10-HUI-R11	Intel® i7-3517UE CPU, capacitive touch, IPS panel, 8GB RAM, 32G SSD, 802.11 b/g/n&BT, 3.75G, RFID, 1.3M/5M camera, 2nd battery, GPS, barcode, WS7P, RoHS	

Specifications

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> ealthcare Panel PC Solution

Industrial System

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ICECARE-10W

Mobile Sales Assistant





Features

- 10.1" TFT LCD with capacitive touch
- Intel® Celeron® 1007U or Intel® Core™ i7-3517UE platform
- Powered by Windows® Embedded Standard 7
- Built-in Bluetooth and Wi-Fi
- Built-in smart card reader and magnetic stripe card reader
- 1D/2D barcode reader, 13.56MHz RFID reader
- Optional Windows® 8 operating system

	Wi Fi		RÊD			
Bluetooth	Wi-Fi	Touchscreen		1D Barcode Scanner	SCR	MSR

Model		ICECARE-10W
	LCD Size	10.1" TFT LCD
	Brightness (cd/m ²)	350
Display	Max. Resolution (HxV)	1280 x 800
	Viewing Angle	85/85/85 Deg.
	Touchscreen	Capacitive type
	CPU	Intel® Celeron® 1007U or Intel® Core™ i7-3517UE platform
Sustan	OS	Windows Embedded Standard 7
System	Memory	On-board 4GB DDR3
	Storage	Built-in 32GB mSATA
Communication	Wireless LAN	802.11b/g/n
Communication	Bluetooth	Bluetooth 3.0
Data Collection	Barcode	1D/2D imager scan engine
Data Collection	RFID	13.56MHz RFID supports ISO 14443A/B (MIFARE®, FeliCa™)
	Keys	1 x Power button 1 x IEI menu
Indicators & Buttons	LED Indicators	Battery Charging/Peripheral Device/Storage/Wireless
	Audio	1 x 1.5W Speaker
	USB	2 x USB 2.0
1/O laterfees	Audio	1 x Audio/Mic-in
I/O Interrace	Micro HDMI	1 x Micro HDMI
	Emeration	Smart card reader
	Expansions	Magnetic stripe reader
	Power Adapter	Input AC: 100~240V Output DC: 19V / 2.1A
Power	Battery	14.8V 3500mAh, 51.8WH
	Power Consumption	19V@2.12A (with Intel i7-3517UE CPU and one 4GB DDR3 memory)
	Operating Temperature	0°C~40°C
	Storage Temperature	-20°C~60°C
Environment	Humidity	5%~95%, non-condensing
	Environmental Protection	IP 54 compliant front panel
	Dimensions (LxWxH) (mm)	290 x 206.5 x 22.5
Physical	Weight	1.1 kg

ICECARE-10W-2017-V10

Optiona Peripherals





Model Variations

Part No.	Touch	IPS	RAM	Wireless	Bluetooth	MSR	SCR	Barcode	RFID
ICECARE-10W-CE-R10	Projected Capacitive	Yes	4GB	802.11 b/g/n	Ver. 3.0	Yes	Yes	Yes	Yes
ICECARE-10W-CE-ET-R10	Projected Capacitive	Yes	4GB	802.11 b/g/n	Ver. 3.0	N/A	N/A	N/A	Yes
ICECARE-10W-I7-R10	Projected Capacitive	Yes	4GB	802.11 b/g/n	Ver. 3.0	Yes	Yes	Yes	Yes
ICECARE-10W-I7-ET-R10	Projected Capacitive	Yes	4GB	802.15 b/g/n	Ver. 3.0	N/A	N/A	N/A	Yes

Optional Accessory List

	Part No.	Description		
radle	ICECARE-10W-CR01-R10	ICECARE-10W charging cradle		
Protective Rubber	ICECARE-10W-PR01-R10	ICECARE-10W protective rubber		
Carrying Case	7Z000-ICECARE-10W-R10POUCH	Protective bag with shoulder strap	Cradle	J

Ordering Information

Part No.	Description
ICECARE-10W-CE-R10	Intel® Celeron® 1007U CPU, capacitive touch, IPS panel, 4GB RAM, 32G SSD, 802.11 b/g/n, BT, 1D/2D barcode, MSR, SCR, RFID, WS7P, RoHs
ICECARE-10W-CE-ET-	R10 Intel® Celeron® 1007U CPU, capacitive touch, IPS panel, 4GB RAM, 32G SSD, 802.11 b/g/n, BT, RFID, WS7P, RoHs
ICECARE-10W-I7-R10	Intel® Core I7-3517UE 1.7GHz CPU, capacitive touch, IPS panel, 4GB RAM, 32G SSD, 802.11 b/g/n, BT, 1D/2D barcode, MSR, SCR, RFID, WS7P, RoHs
ICECARE-10W-I7-ET-R	10 Intel® Core I7-3517UE 1.7GHz CPU, capacitive touch, IPS panel, 4GB RAM, 32G SSD, 802.11 b/g/n, BT, RFID, WS7P, RoHs

ICECARE-10W-2017-V10



Retail Store Management



Hotel Registration System



Restaurant Table Order Management Production Line Management



IEIMobile Solutions















ICEFIRE 2

Care O

10.4" Mobile Clinic Assistant

Features

- 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
- 1D/2D barcode reader, 13.56MHz RFID reader
- Dual-mode input (digitizer + capacitive touch)
- Dual hot-swappable battery
- Dual Camera:
 - 1.3-megapixel front camera
 - 3.0-megapixel rear camera



Specifications

	Model		ICEFIRE2-T10-HU-R11	ICEFIRE2-T10-TR-R11	ICEFIRE2-T10-ET-R11		
		LCD Size		10.4" TFT LCD			
IEIMobile		Brightness (cd/m ²)	350 cd/m²				
Conditions	Display	Max Resolution	1024 x 768 pixels XGA				
		Viewing Angle		88/88/88/88 Deg.			
\mathcal{O}		Touchscreen		Projected Capacitive			
		Digitizer	2048 levels@ full scale pressure resolution	N/A	N/A		
Automation Panel		CPU		1.86GHz Intel® Atom™ N2800			
Solutions		Chipset		Intel® NM10			
	System	Operating System	Microso	oft® Windows® Embedded Standard 7 P (WS	7P)		
2		Memory		1333MHz 4GB DDR3 SDRAM			
		Storage	mSATA 8G SLC				
Healthcare		Wireless LAN		Wi-Fi 802.11b/g/n			
Solution	Communication	Bluetooth		Bluetooth 3.0 + EDR (Class 2)			
		Modem	WCDMA/HSUPA	N/A	N/A		
1	Data Oallastian	Barcode	1D/2D Imager	Scan Engine	N/A		
4	Data Collection	RFID	13.56 MHz RFID supports ISO	15693 and 14443A/B compliant	N/A		
Industrial	Fingerprint Reader		Yes	Yes	N/A		
System	Indicators & Ruttons	LED Indicators	Power/ Wi-Fi/Bluetooth/ F	RFID/ Battery Status LED	Power/ Wi-Fi/Bluetooth/ Battery Status		
5		Keys	5-way navigation key/ Barcode Scanner/RFID/LED Torch/Camera/Wi-Fi/ Bluetooth/SAS/Function Key		5-way navigation key//Camera/ Wi-Fi/ Bluetooth/ SAS/Function Key		
		USB		1 x USB 3.0			
ORing Network	I/O Interface	LAN					
ommunication		Audio		1 x 2W Speaker, 1 x Mic in			
		LED Torch	1 x LED Torch	1 x LED Torch	N/A		
6		Power Adapter		12V @ 5A @ 60W			
	Power	Docking Power Adapter		19V @ 4.74A @ 90W			
Automation Control		Battery		Dual 11.1V 1880mAh Li-ion Battery			
		Operating Temperature		0°C to +40°C			
		Storage Temperature		-10°C to +60°C			
7	Environment	Humidity		5%~95% non-condensing			
	Environment	Drop Survival		90 cm			
Optional Peripherals		Environmental Protection		IP 64 compliant front panel			
i cripiteraio		Certifications	CE/FCC	CE/FCC	CE/FCC		
	Physical Characteristics	Dimensions (LxWxH) (mm)		270 x 265 x 29			
		Weight	1.7 kg	1.7 kg	1.6 kg		

IEIMobile Solution

www.ieimobile.com



Packing List

Carrying Case

Item

Docking Station

Docking Station

Power Adapter

Smart Card Reader

Battery Pack

Digitizer Pen

Carrying Case

Battery Pack-B

Medical-grade Power Adapter (12V/60W)

Item	Part No.	HU	TR	ET
Digitizer Pen	7Z000-UP7110E63C1-RS	•		
Battery Pack	31603-000016-RS	•	•	
Battery Pack-B	31603-000020-RS			•
Non-Medical-grade Power Adapter (12V/60W)	63040-010090-100-RS	•	•	•
User's Manual CD	7B000-000552-RS	•	•	•
			\neg	



Part No.

Optional Accessory List



ICEFIRE-T10A-DSRG-R10

19B00-000288-00-RS

19B00-000289-00-RS

63040-290090-010-RS

63040-010060-020-RS

31603-000016-RS

31603-000020-RS

ICEFIRE-T10A-SCR01-R10

7Z000-UP7110E63C1-RS

7Z000-ICEFIRET10APOUCH-RS



Description

11.1V 1880 mAh battery

Digitizer sensor pen

11.1V 1880 mAh battery, black



12V Power Adapter

USB 2.0 (Full Speed) smart card reader complies with ISO7816-1,2,3 for ICEFIRE-T10A

ICEFIRE docking station without docking adapter, rugged type

Standard power adapter for docking station

Medical grade power adapter for docking station

Car cigarette power adapter for docking station

Black, leather protective bag with shoulder strap







3 Healthcare

IMobile











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Optional Peripherals

Ordering	Informa	tion

Part No.	Description	
ICEFIRE 2: Intel® Atom™ N2	800 CPU with Windows® Embedded Standard 7	
ICEFIRE2-T10-HU-R11	10.4" TFT-LCD 350 cd/m ² XGA Industrial Mobile Clinical Assistant with Dual-core Intel® Atom™ N2800 1.86GHz CPU, Capacitive 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-R11	10.4" TFT-LCD 350 cd/m ² XGA Industrial Mobile Clinical Assistant with Dual-core Intel® Atom™ N2800 1.86GHz CPU, Capacitive 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-R11	10.4" TFT-LCD 350 cd/m² XGA Industrial Mobile Clinical Assistant with Dual-core Intel® Atom™ N2800 1.86GHz CPU, Capacitive Multi-Touch, 4GB DDR3 RAM, 802.11b/g/n Wireless, Bluetooth, 8GB mSATA, WS7P RoHS	

ICEFIRE2-2017-V10

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MODAT-532

Mobile Data Collector





Features

- Stylish rugged design and ultra-light industrial Android mobile device
- Quad-Core Cortex A53 64bit 1.5GHz Processor
- 5.3" display PDA
- Optional

GSM 850/900/1800/1900 WCDMA 2100/1900/850/900

4G LTE

FDD (Band 1,2,3,7,8,20)

TDD (Band 38,39,40,41)

- Micro USB port and microSD card slot (max. 32 GB) for maximum connectivity
- Android 5.0 OS
- 1D/2D imager scan engine
- NFC (device to device communication, card reader).



Model		MODAT-532A-QA53-R10	MODAT-532A-QA53-ET-R10			
	LCD size	5.3	9			
	Brightness (cd/m ²)	350 cc	l/m²			
Display Max. Resolution Viewing Angle		540(H) x	960(V)			
		80/80/80 Deg.				
	Touchscreen	5-point capacitive				
	CPU	Quad-core Cortex A	53 64bit 1.5GHz			
	Operating System	Android	15.0			
System	Memory	16GB el 2G LPC	MMC DDR2			
	Storage	microSD slot	up tp 32GB			
	Wi-Fi	802.11a	/b/g/n			
	Bluetooth	4.0 L	E			
Communication Modem (Optional)		GSM (800, 900, 1800, 1900) WCDMA (2100, 1900, 850, 900) 4G FDD(Band1,2,3,7,8,20), TDD(38,39,40,41)				
	GPS	GPS / GI	onass			
	NFC	Yes	3			
Data Collection	Barcode	1D/2D imager scan engine	N/A			
	Camera	13-megapixel AF	rear camera			
Indicators & Buttons	LED Indicators	Green/	Red			
I/O Interface	Audio	1x 0.5W S 1x Headset	ipeaker t / Mic-in			
	USB	1x High-speed Mic	ro USB 2.0 Host			
Power	Power Adapter	5V/3	A			
Fower	Battery	3900 n	nAh			
	Operating Temperature	-10°C ~	50°C			
	Storage Temperature	-20°C ~	0°0			
Enviroments	Humidity	10% ~ 95%, noi	n condensing			
	Drop Survival	1.5r	n			
	Environmental Protection	IP 6	7			
Dhusiaal	Dimensions (L x W x H)	160.9 mm x 85.4 r	nm x 28.85 mm			
Physical		386 g				

IEIMobile Solution



Power Key Power Key Micro USB Port

Optional Accessory List

Item	Part No.	Description
Cradle	MODAT-531A-CR01-R10	MODAT-531 charging cradle
MODAT-531 Standard Pouch	7Z000-MODAT531APOUCH	MODAT-531A pouch, black





Packing List

Earphone

Item	Part No.	Q'ty
USB Cable	32001-014300-100-RS	1
AC-DC Adapter	63040-480015-001-RS	1
Hand Strap	46035-000300-RS	1

Cradle Specification

Model		Ram Mount
I/O Interface	DC Input	1 x Micro USB Jack
Power	Power Supply	5V/3A
	Operating Temperature	-10°C ~ 50°C
Environment	Storage Temperature	-20°C ~ 60°C
	Humidity	10% ~ 95% non condensing
Physical Characteristics	Dimensions (LxWxH) (mm)	115.0 x 66.0 x 50.4
	Weight	194 g

Ordering Information

Part No.	Description
MODAT-532A-QA53-R10	5.3" 350 cd/m ² , Capacitance Touch, Android 5.0 PDA with Quad Cortex-A53 1.5GHz, 802.11 a/b/g/n WiFi, 4.0 LE Bluetooth, GSM(3G, LTE), GPS, FM, 13M pixel camera, 1D/2D barcode, 2GB LPDDR3, 16GB eMMC, NFC, RoHS
MODAT-532A-QA53- ET-R10	5.3" 350 cd/m ² , Capacitance Touch, Android 5.0 PDA with Quad Cortex-A53 1.5GHz, 802.11 a/b/g/n WiFi, 4.0 LE Bluetooth, GSM(3G, LTE), GPS, FM, 13M pixel camera, 2GB LPDDR3, 16GB eMMC, NFC, RoHS

Enterprise PDA Mobility Management Solution

- Stylish rugged IP67 design and ultra-light industrial PDA mobile device with Android 5.0 OS system
- MODAT-532 NFC (Near field communication) can be used as mobile terminal which allows your association to identify users
- Enhancing on-duty staff work force and mobility, all data and information captured by MODAT-532 can be transferred via wireless communication providing real-time response without any lost.
- Quad-Core Cortex A53 64bit 1.5GHz Processor, 5.3" mobile PDA phone
- GSM 850/900/1800/1900
- Optional GSM 850/900/1800/1900
- Optional WCDMA (2100,1900,850,900) 4G LTE FDD(Band1,2,3,7,8,20), TDD(38,39,40,41)



Automation Panel Solutions







Optional

utomatio

HF RFID TAG





Intelligent HF RFID Sensor Tag/Data Logger

Features

- Support temperature, vibration, ambient light, humidity, GPS data logging
- All-in-one design: built-in HF RFID sensor, data logger and USB 2.0
- Maximum storage: 10 million of data logging.
- 13.56 MHz RFID, ISO15693 RF air protocol
- Design for long term data recording
- Fast and efficient wireless RFID for reading out the instant data
- Support time-stamp
- Configurable duration from 1 second to 12 hour for one record

Specifications











woder Number	KFID-1P-D-51-K10	KFID-VD-D-51-K10	RFID-AL-D-ST-RTU	KFID-H1-D-51-K10	KFID-GPS-D-S1-K10	KFID-51P-D-51-K10	RFID-1P-N-51-R10
Function	Temperature sensor tag plus data logger	Vibration sensor tag plus data logger	Ambient light sensor Ttag plus data logger	Humidity and temperature sensor tag plus data logger	GPS sensor tag plus data logger	Slim RFID temperature sensor plus data logger	RFID temperature sensor tag
Application	Frozen food Environment monitor	Transportation quality Machine abnormality	Environment monitor	Environment monitor	Transportation tracking	Frozen food Environment monitor	Frozen food Environment monitor
Data Logger	Yes	Yes	Yes	Yes	Yes	Yes	No
Normal Used Range	From -20°C to 60°C	From -20°C to 60°C	From -20°C to 60°C	From -20°C to 60°C	From -20°C to 60°C	From -20°C to 60°C	From -20°C to 60°C
Accuracy	0.5°C (max) from 0°C to +65°C 1.0°C (max) from -40°C to +125°C	Full scale ±8g Output data rate 50Hz Max. resolution 3.9mg	Full scale 16000 LUX Resolution ±4 LUX	Relative Humidity ±2%, From 0% to 100% Temperature ±0.2°C (-40°C to 125°C)	<3m	0.5°C (max) from 0°C to +65°C 1.0°C (max) from -40°C to +125°C	0.5°C (max) from 0°C to +65°C 1.0°C (max) from - 40°C to +125°C
Max Storage	134,217,724 points (4GB)	134,217,724 points (4GB)	134,217,724 points (4GB)	134,217,724 points (4GB)	67,108,862 points (4GB)	3423 points (107KB)	1 point
Time Stamp	Yes	Yes	Yes	Yes	Yes	Yes	No
	1, 2, 5, 10, 15, 30 sec		1, 2, 5, 10, 15, 30 sec	1, 2, 5, 10, 15, 30 sec	1, 2, 5, 10, 15, 30 sec	1, 2, 5, 10, 15, 30 sec	
Record Interval	1, 2, 5, 10, 15, 30 min	50/sec	1, 2, 5, 10, 15, 30 min	1, 2, 5, 10, 15, 30 min	1, 2, 5, 10, 15, 30 min	1, 2, 5, 10, 15, 30 min	NA
	1, 2, 3, 6, 12 hr		1, 2, 3, 6, 12 hr	1, 2, 3, 6, 12 hr	1, 2, 3, 6, 12 hr	1, 2, 3, 6, 12 hr	
Indicator (LED)	Short flash once: recording					Short flash once: recording	
Indicator (LED)			Short flash twice:	error message			NA
PC Interface			USB 2.0 mass s	storage device			NA
RFID	ISO 15693, 13.56 MHz	ISO 15693, 13.56 MHz	ISO 15693, 13.56 MHz	ISO 15693, 13.56 MHz	ISO 15693, 13.56 MHz	ISO 15693,13.56 MHz	ISO 15693,13.56 MHz
Power Supply	4.0 to 5.5 VDC	4.0 to 5.5 VDC	4.0 to 5.5 VDC	4.0 to 5.5 VDC	4.0 to 5.5 VDC	4.0 to 5.5 VDC	NA
Battery	Battery pack AA by 4	Battery pack AA by 4	Battery pack AA by 4	Battery pack AA by 4	Battery pack AA by 4	20mAh film battery inside	N/A
Water Proof	IP20	IP20	IP20	IP20	IP20	IP20	IP20
Cerification	FCC CLASS A	FCC CLASS A	FCC Class A	FCC Class A	FCC Class A	FCC Class A	FCC Class A
Dimensions (L x W x H)	12 cm x 8 cm x 3 cm	12 cm x 8 cm x 3 cm	12 cm x 8 cm x 3 cm	12 cm x 8 cm x 3 cm	12 cm x 8 cm x 3 cm	9.2 cm x 6.6 cm x 0.2 cm	9.2 cm x 6.6 cm x 0.1 cm
Working hours	23 days based on 500mAh battery record	1 day based on 500mAh battery.	37 days based on 500mAh battery record every	9 days based on 500mAh battery record every	1 day based on 500mAh battery record every	0.5 day based on build- in battery record every second	N/A

HF RFID Sensor Tag Plus Data Logger

The HF RFID tag series is designed for long-term temperature, vibration, ambient light, humidity and GPS recording. It uses an SD card as a mass storage media which can continually store 134 million points (four gigabytes for a file) of temperature when using continuous power (such as using USB power adapters). If continuous power is not available, it can use a one time battery case or a rechargeable battery bank which may support one week to one month recording depending on the recording duration and the type of the battery. The recording period can be configured from one second to twelve hours for one recording devent. Recording data is easily to be read from the USB port. The data stored on a file is called "RECORD. TXT", which is auto-generated and can be opened by Notepad or Excel directly.

Configure the Device

Before using this device, the user has to setup the recording interval and synchronize the computer clock to the device. After finishing the data collection, use a USB cable to connect with a tablet or a laptop to read and analyze the data.



Optional Peripherals

2 Automation Panel Solutions

> 3 lealthcare Panel PC Solution

Industrial System

ORing Network munication

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Check Highest & Lowest Temperature During Delivery



• This device implements a real-time clock which supports time-stamp function, and the user can use a RFID reader to read the highest and lowest temperature when the product is delivered from the starting point.

Use the MODAT-532 or any ISO15693 RFID reader to read the temperature to ensure the perishable product is not spoiled during delivery.





Applications and Industries

Data loggers are used in a wide variety of industries, especially in restaurants, catering, transportation and medical/vaccine storage. Basically, anywhere temperature is a critical factor in storage or transportation of goods, a temperature logger is useful. The RFID sensor tags are ideal for keeping track of the following applications:

- Dry ice storage and transportation
- · Food fridges and freezers
- Human organ transport
- · Blood storage
- · Frozen foods transportation
- Medical storage
- · Environment monitor
- GPS tracking
- · Machine abnormality





Environment Monitor

Frozen Food

Vaccines, drugs and clinical trials products need to be shipped within a prescribed temperature range to maintain their efficacy as well as food to maintain its freshness.

The benefits of applying RFID and sensors to perishable goods include improved food and drugs safety, longer vaccines and drug efficacy, more efficient product recalls, reduced costs due to less spoilage, lower inventories, more efficient logistics, and improved customer service.

Temperature logger provides a complete temperature exposure of your perishables record during transport. This technology is helpful for cold chain control and predicts the remaining life of goods.

The RFID sensor tags can be read and configured using a standard ISO15693 compliant RFID reader without the needs of special commands or devices. Tests performed demonstrate that combined RFID and sensor technology applied to the cold chain results in an optimization of quality, an increase in supply chain management efficiency as well as increased savings due to less waste production.

Ordering Information

Part No.	Description
RFID-TP-D-ST-R10	Temperature sensor tag, data logger, 4GB storage, 0.5°C~1.0°C accuracy, 13.56MHz, ISO15693, USB 2.0 interface, RoHS
RFID-VB-D-ST-R10	Vibration sensor tag, data logger, 4GB storage, ±3.9mg accuracy, 13.56MHz, ISO15693, USB 2.0 interface, RoHS
RFID-AL-D-ST-R10	Ambient light sensor tag, data logger, 4GB storage, ±4 LUX accuracy, 13.56MHz, ISO15693, USB 2.0 interface, RoHS
RFID-HT-D-ST-R10	Humidity and temperature sensor tag, data logger, 4GB storage, relative humidity ±2%, temperature ±0.2°C, 13.56MHz, ISO15693, USB 2.0 interface, RoHS
RFID-GPS-D-ST-R10	GPS sensor tag, data logger, 4GB storage, <3m accuracy, 13.56MHz, ISO15693, USB 2.0 interface, RoHS
RFID-STP-D-ST-R10	Slim temperature sensor tag, data logger, 107KB storage, 0.5°C~1.0°C accuracy, 13.56MHz, ISO15693, USB 2.0 interface, RoHS
RFID-TP-N-ST-R10	Passive temperature sensor tag, data logger, 0.5°C~1.0°C accuracy, 13.56MHz, ISO15693, RoHS

Optional Accessory List

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Item	Part No.	Description	14		
Adapter power	63040-290013-000-RS	Adapter Power, Powertron, PA1015-050SIB260, PA1015-050SIB260-838 V0, Vin:90~264VAC, 13W, Erp(NO LOAD 0.3W),Wall Mount/Switchover plug, Vout:5VDC, USB, CCL, ROHS	4		4738 O
Power bank	31603-000042-RS	Battery Pack, Li Ion, T-GEE, 5811-TCTWMX312A, Maxcell, NA, 6200mAH, 3.8V, 1S2P, CCL, RoHS	UEDAD		
RFID tag	RFID-ST-RD-R10	RFID Sensor Tag Reader, 128x64 OLED, 107KB Storage, 13.56MHz, ISO15693, USB 2 0 interface, 650mAb	Adapter power	Power bank	RFID tag reader



Optional Peripherals

Automation olutions







IMATELLIGENT

Multipurpose Alarm System





Features

- Support WiFi 802.11 b/g/n
- Weight limitation from 20kg to 120kg
- Support real time monitor and receive notice from mobile phone
- Support Android & iOS
- Support LIFX smart bulb
- Built-in battery 1800mAh



Specifications

Model	IMATELLIGENT-R10		
CPU	32-bit RISC MCU		
RAM	256 MB		
USB	1 x Micro USB 2.0		
Wireless	Wi-Fi 802.11 b/g/n		
	Trigger time: 0.3 sec after stepping on		
Sensor	Weight limitation from 20kg to 120kg		
	Support LIFX smart bulb		
OS	RTOS		
Battery	1800mAh		
Davias lagut	5V DC input		
Power input	1 x On/Off switch		
	Working Temperature : 0°C ~ 40°C		
Operation Environment	Storage Temperature : - 10°C ~ 60°C		
	Humidity : 5% ~ 90%RH (no-condensing)		
Dimensions (WxHxD) (mm)	540 x 340 x 14		

Ordering Information

Part No.	Description
IMATELLIGENT-R10	32-bit RISC MCU; one Micro USB 2.0; Wireless 802.11b/g/n; 1800 mAh battery; RTOS
SIMATELLIGENT-ET-R10	32-bit RISC MCU; one Micro USB 2.0; Wireless 802.11b/g/n; RTOS

Device Connection Wireless Router Velcro Area Mobile Device MODAT-532A Power Switch Sensor Area Micro USB Port Smart Bulb IMATELLIGENT • Software Structure LIFX Bulb IMATELLIGENT **IEI Cloud** Cell Phone APP Get Switch Status APK JSON VM Receive & control message Cloud Setup Battery Status Create Account Group Dash Board Bundle or delete device Setup • Initialization SMELCare Setup ON OFF Initialization Storage Smart linkTurn on time Smart linkTurn on timeLIFX Bulb bundle Message log 🕤 Add Device 🕤 Add De 🕤 Mat Si 🕤 No Light 1 Add Device Add Device Follow instructions to connect your i-mat and this phone via Wi-Fi. Please enter SSID & password for AP Automation Panel Solutions 192.168.1.25 111 AP ID: IEI AP 58646649 IMATELLIGENT ПК ПК Healthcare Panel PC Solution Main Menu Add Device Mat Setup Smart Bulb Setup Notice Industrial System **IMATELLIGENT** Dimensions (Unit: mm) 540 16.30 ORing Network Communicatio RIOI Automation Control 340 Optional Peripherals

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ElMobile

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