

# ICEROCK

## Infotainment Tablet PC

- 8" 350 cd/m<sup>2</sup> TFT XGA LCD
- Intel® Atom™ Z530 platform
- Powered by Windows® XP Embedded
- Bluetooth, Wi-Fi, 3.75G wireless
- Optional 1D/2D barcode scanner and 13.56 MHz RFID reader compliant with ISO 15693 and ISO 14443A



Wi-Fi



Bluetooth



1D Barcode Scanner



2D Barcode Scanner



RFID



3.75G/HSUPA



Camera



IP62



Touchscreen



Fanless



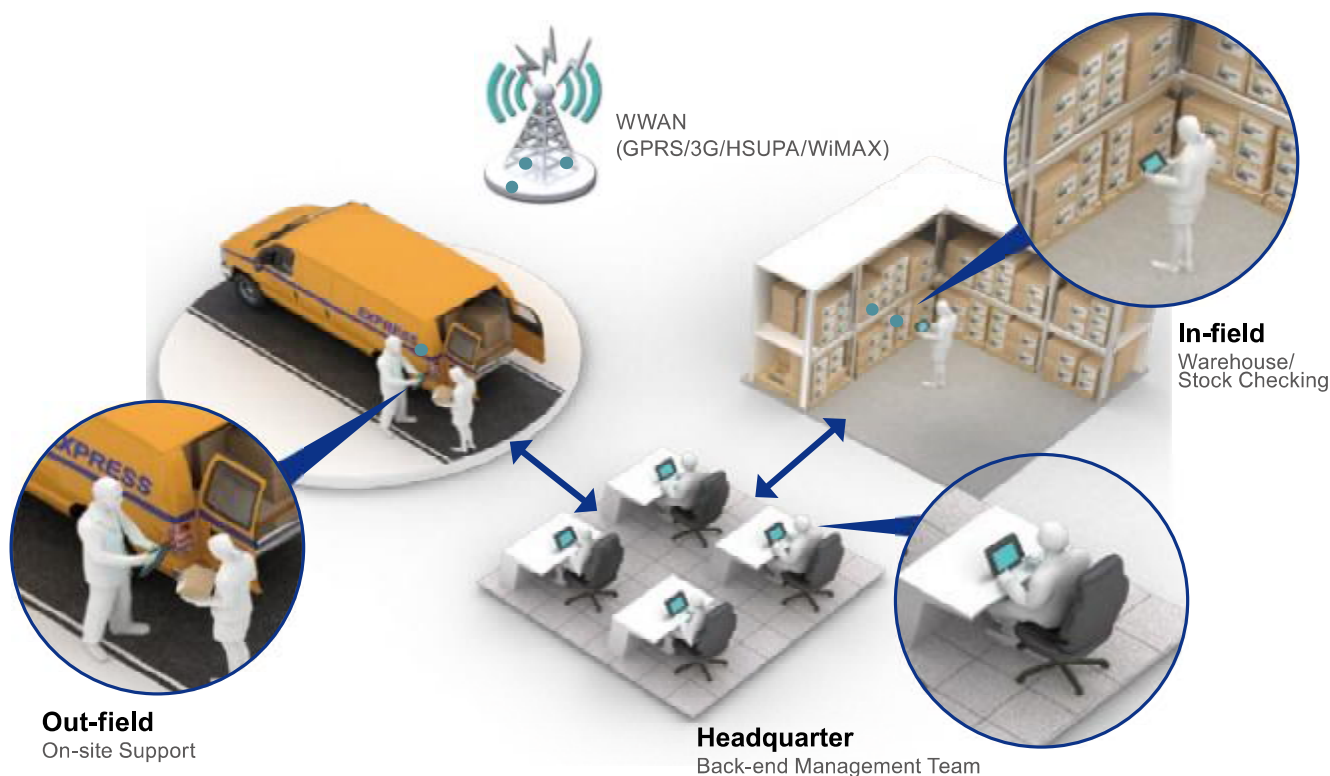
Windows XP

Intel  
Intelligent  
Systems  
Alliance

## Application

The ICEROCK is a semi-rugged and powerful tablet PC for indoor, outdoor and home automation applications. It can be applied across vertical markets that need a robust device for harsh work environments.

The ICEROCK utilizes the power of Intel® Z530 processors and integrates Wi-Fi 802.11 b/g/n, Bluetooth and enhanced Gobi™ 3000 mobile broadband for out-field users.



## Easy to Use

### Ambient Light Sensor

Automatically adjusts the screen brightness for optimum visibility and energy efficiency.



### 1.3 Megapixels Camera and Microphone

Built-in 1.3 megapixels video intercom device allows for real-time communication. The webcam performs well in low light situations.



### Eight Function Keys

F1~F8 function keys help to simplify frequently used applications by pressing a single shortcut key. The Function Keys can be programmed for customization.

Key	Functions
Fn+F1	Sleep
Fn+F2	Volume ON/OFF
Fn+F3	Volume Up
Fn+F4	Volume Down
Fn+F5	Auto Dimming
Fn+F6	Brightness Up
Fn+F7	Brightness Down
Fn+F8	LCD ON/OFF



Key	Description
SAS(Fn)	Secure Attention Sequence (Alt+Ctrl+Del)

Key	Functions
Arrow Up	Up
Arrow Down	Down
Arrow Right	Right
Arrow Left	Left
Enter Key	Enter
Fn+Arrow Up	Page Up
Fn+Arrow Down	Page Down
Fn+Arrow Right	End
Fn+Arrow Left	Home

### LED Indicators

Indicator 1	AC power in/Battery on (Only Battery with AC Power) Battery mode: Red LED On Battery mode and low power: Red LED Flash	(Battery and AC Power in) Battery charge mode: Green LED blinks Battery charge mode and full battery: Green LED on
Indicator 2	Wireless/Bluetooth Enable: LED on; Disable: LED off	
Indicator 3	HD Enable: LED on; Disable: LED off	
Indicator 4	3.75G Enable: LED on; Disable: LED off	

### Rotate with G-Sensor

Automatically toggles between portrait and landscape display mode providing the most comfortable viewing experience.



### G-sensor Setting

Disabled by default, the G-sensor can be set-up in BIOS. Use the function key to select BIOS SET UP. Press F4 to go back to the previous menu.

The automatic screen rotation sensitivity can be enhanced by enabling G-sensor with an ODM.



### After Enabling the G-sensor Function

1. Please make sure to install the Graphics Driver before adjustment
2. Enable G-sensor in BIOS
3. Calibration window will appear after enabling the G-sensor
4. ICEROCK has to be laid down on a flat surface
5. Press Enter to complete G-Sensor calibration



## Reliable

### IP62 Compliant Front Panel Protection

Provides protection against damage caused by accidental spills and dust.

### One Key Recovery

IEI's useful One Key Recovery solution includes exclusive technology to backup and recover your operating system with just one simple click when your computer faces the following situations:

- Severe virus attack
- Operating system crash
- Natural or man-made disasters



## Powerful

### High Graphics Performance Supports H.264, MPEG1/2/4, VC-1/WMV9 High Definition Decoding

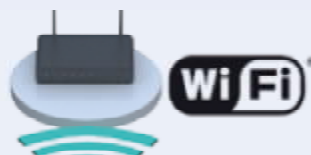
The ICEROCK is powered by an Intel® Atom™ Z530P with full hardware acceleration which eliminates the need for software decoding and the risk of overloading the processor. With low CPU resource utilization, the ICEROCK is optimized for multitasking.



## Mobile

### 802.11b/g/n Wireless LAN

Integrated PIFA antenna on the ICEROCK ensures an uninterrupted wireless connection and provides up to IEEE 802.11n wide bandwidth operation. Frees cables and clutter from your workspace.



### Bluetooth V3.0+HS CLASS II

A preinstalled Bluetooth module communicates with a wide range of electronic devices from PDAs and cellphones to barcode readers. Transmission performance is greater than 20m in free space.



### 3.75G HSUPA

#### Mobile 3.75G Connection

Free Wi-Fi hotspots will only get you so far. Stay connected with a mobile broadband Internet connection over 3G mobile phone network while you're on the move.

#### Supported Bands

\*HSPA/UMTS –800/850/900/1900/2100 MHz

\*Quad-band EDGE/GPRS/GSM –850/900/1800/1900 MHz

\*Dual-band EV-DO/CDMA



Warehouse Management



Multimedia Control Center



Construction Site

## Communication Applications

### 1. Surveillance Management



The ICEROCK can monitor factories, offices and other places such as VNC software through LAN, 3.75G or Wi-Fi connection.

### 2. Remote Login

Users can remotely login via LAN, 3.75G and Wi-Fi such as VPN

Example: use 3.75G connection to login a NAS server.



### 3. Wireless Communication

Use communication software such as SameTime or Skype via LAN & 3.75G & Wi-Fi and Bluetooth earphone.



### 4. Ordering System

The ICEROCK can be set up as a POS station when used together with a handheld order terminal such as the MODAT-200. It can also be displayed in the kitchen or connected to a Bluetooth printer to print out receipts.



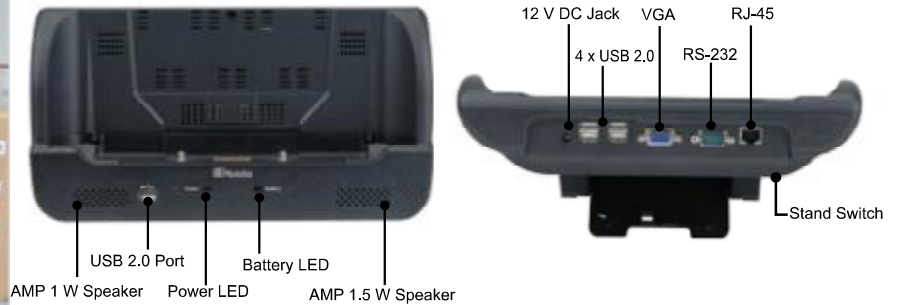


## Diverse Installation Methods

### Desktop with Docking Station



### Docking Station (Optional) ICEROCKDS-08A-R10



### Wall Mount with Docking Station



### Wall Mounting Options VESA Stand



Adjustable Hinge



VESA 75 mm x 75 mm

### Built-in Stand

VESA  
50 mm x 20 mm

### Docking Station Provides Second Display Connection

The docking station provides a VGA out connector that connect the ICEROCK to a larger second display such as a projector, TV or monitor.



Monitor

Projector

TV

## Optional Battery Pack

### Larger Battery Pack



### Longer Power Support – Optional Larger Battery Capacity

5000 mAh capacity is powerful enough to support the ICEROCK's rich wireless communication and various data collection functions.



Part No. 31603-000022-RS

### Specifications

	Item	Rating Performance	Remark
1	Nominal capacity	5000 mAh	In standard charging
2	7.4V Nominal Voltage	7.4V	Within 1 hour after quick charging
3	Maximum charge voltage	8.4V	
4	Operating condition	Charge: 0°C~40°C Discharge: -10°C~60°C	
5	Storage temperature	-20~60°C	

# ICEROCK-BAR

ICEROCK-08A-BAR-2G-R12

ICEROCK-08A-BAR-HU/2G-R12

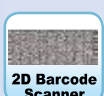


## Advanced Data Acquisition Technology



### RFID Reader

Certified with ISO15693, ISO14443A, and ISO14443B, the built-in RFID reader for data collection automates data capture, improving data accuracy, productivity, and performance for business applications.



### 1D/2D Barcode Scanner

Powered by Honeywell Adaptus® Imaging Technology, the built-in barcode reader features high quality reading functionality and advanced image capture capabilities. Designed with industry-leading motion tolerance, low light sensitivity, broad depth of reading distances, and tough environmental considerations, it is a quick and easy adoption for point-and-shoot scanning.



Performance			
Focal Point	SR: 7" (17.8cm) from lens plate; SF: 4.5" (11.4cm) from lens plate	Viewing Angle	± 40°C
Ambient Light	Total darkness to 100,000 lux (full sunlight)	Image Sensor	752 x 480 CMOS sensor
Supported Symbolologies			
1D	Code 39, Code 128, Codabar, UPC, EAN, Interleaved 2 of 5, Reduced Space Symbology, Code 93, Codablock		
2D	PDF417, MicroPDF417, MaxiCode, Data Matrix, QR Code, Aztec, Aztec Mesa, Code 49, UCC Composite		
Others	Postal Codes, OCR Fonts		



Integrated with both an 1D/2D barcode scanner and a RFID reader, the upgraded ICEROCK (bar) is the most competitive choice for retailers of all types. From department stores that offer almost everything, to specialty stores that provide particular products, inventory management and control is ultimately the most important issue that retail managers have to face. With the ICEROCK (bar), inventory can be recorded and tracked automatically. It can not only reduce costs associated with human handling (such as error and time) but also allow retailers to improve accuracy, efficiency and profitability.



Inventory Management



Inventory Registry



Inventory Tracking

## System Overview

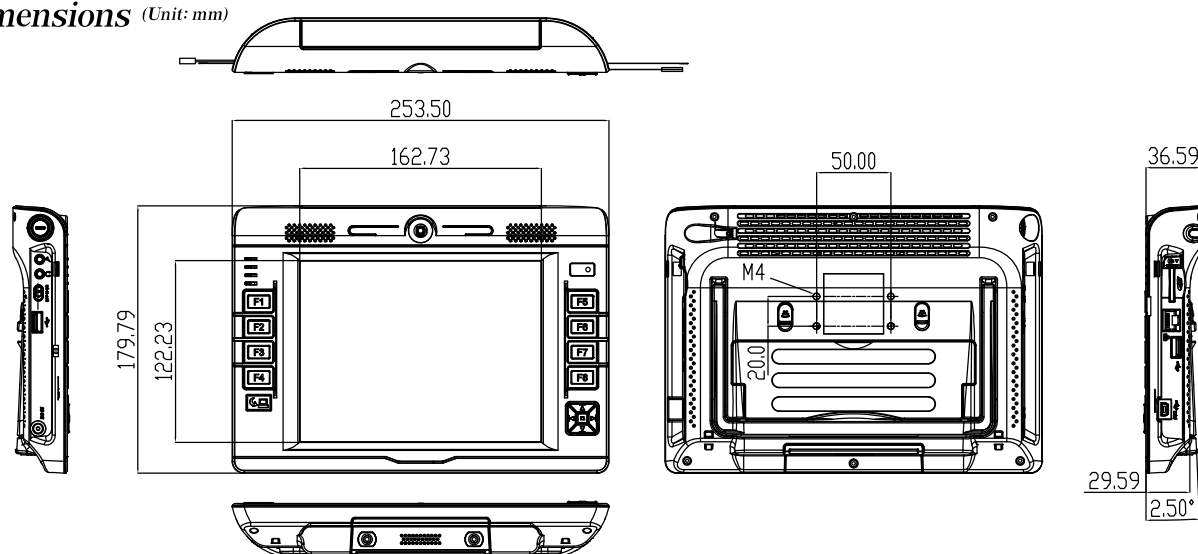


## Specifications

Model		ICEROCK
Display	LCD Size	8.0" TFT LCD
	Brightness (cd/m <sup>2</sup> )	350 cd/m <sup>2</sup>
	Max Resolution	800 x 600 pixels SVGA
	Viewing Angle	70/70/60/70 Deg.
System	CPU	Intel® Atom™ Z530 1.6GHz
	Chipset	Intel® SCH US15WP
	Operating System	Microsoft® Windows® XP Embedded
	Memory	2G DDR2 on board
	Storage	CompactFlash® Slot, SD Card Slot
Communication	Wireless LAN	Wi-Fi 802.11b/g/n
	Bluetooth	Bluetooth® V3.0 + HS (Class II)
	Modem	WCDMA/HSUPA (optional)
	GPS	by customization
Data Collection	Camera	1.3 megapixels
	Barcode	1D Laser / 2D Imager Scan Engine (Optional)
	RFID	13.56 MHz RFID supports ISO 14443A/B (by customization)
Indicators & Buttons	LED Indicators	Power/ Wi-Fi/Bluetooth/HDD/3.75G Status LED
	Keys	5-way navigation key 8 x Programmable function keys
I/O Interface	USB	2 x USB 2.0 1 x Mini USB Client
	LAN	1 x 10/100/1000 Mbps GbE RJ-45
	Audio	2 x 1.5W Speaker 1 x Mic-in
Power	Power Adapter	12V @ 5A @ 60W
	Battery	7.4 V 2400 mAh Li-ion Battery (Optional 5000mAh)
Environment	Operating Temperature	0°C to +40°C
	Storage Temperature	-20°C to +60°C
	Humidity	5%~95% non-condensing
	Drop Survival	1.0 M
	Environmental Protection	IP 62 compliant front panel
	Certifications	CE/FCC
Physical Characteristics	Dimensions (LxWxH) (mm)	255 x 180 x 37
	Weight	1.1 kg

# ICEROCK

Dimensions (Unit: mm)



## Ordering Information

Part No.	Description
ICEROCK-08A-Z530/WT-R/2G-R12	8.0" 350cd/m <sup>2</sup> SVGA Mobile Panel PC with Intel® Atom™ Z530P 1.6GHz, 802.11 b/g/n Wireless Module, Bluetooth Module, Touch screen, 1.3 Megapixels Camera, 2GB SDRAM, R10, RoHS
ICEROCK-08A-WT-R-HU/2G-R12	8.0" 350cd/m <sup>2</sup> SVGA Mobile Panel PC with Intel® Atom™ Z530P 1.6GHz, 802.11b/g/n Wireless Module, Bluetooth Module, Touch screen, 1.3 Megapixels Camera, 2GB SDRAM, 3.75G Module, RoHS
ICEROCK-08A-BAR-2G-R12	8.0" 350cd/m <sup>2</sup> SVGA Mobile Panel PC with Intel® Atom™ Z530P 1.6GHz, 802.11b/g/n Wireless, Bluetooth, RFID, 1D/2D Barcode Scanner, 1.3 Megapixels Camera, 2GB SDRAM, RoHS
ICEROCK-08A-BAR-HU/2G-R12	8.0" 350cd/m <sup>2</sup> SVGA Mobile Panel PC with Intel® Atom™ Z530P 1.6GHz, 802.11b/g/n Wireless, Bluetooth, RFID, 1D/2D Barcode Scanner, 1.3 Megapixels Camera, 2GB SDRAM, 3.75G Module, RoHS

## Packing List

Item	Part No.	Q'ty
Battery Pack	31603-000011-RS	1
Power Adapter	63040-010060-030-RS	1
Power Cord	32702-000200-100-RS	1
Stylus	7Z000-6051D0320101-RS	1
Plastic Protective Shell	47003-007600-00-RS	1
User Manual CD	7B000-000774-RS	1
IEI One Key Recovery CD	7B000-000724-RS	1

## Optional Accessory List

Item	ICEROCK	Description
Docking Station	ICEROCKDS-08A-R10	Docking station with VGA, 5 x USB 2.0, RJ-45, and RS-232 ports for ICEROCK series
Battery Pack	31603-000011-RS	7.4V 2400 mAh Battery
Battery Pack - Large	31603-000022-RS	7.4V 5000 mAh Battery
Leather Carrying Case	ICEROCKCB-00-R10	Black, Leather carrying case in black color for ICEROCK-08A series
OS Windows® XP Embedded	ICEROCKCF-08-XPE-2GB-R10	2 GB CompactFlash® with Windows® XPE OS image and license
	ICEROCKCF-08-XPE-4GB-R10	4 GB CompactFlash® with Windows® XPE OS image and license

