



Rugged Embedded for you



Rugged Mobile Computing / IB-8



MSR



RFID



Barcode Scanner

IB-8

System	
CPU	Intel® Bay Trail-M Quad Core N2930 1.83/ 2.16GHz
Memory	1 x 204-pin DDR3L SO-DIMM Socket support up to 8GB
Storage	mSATA SSD 32G up to 512G
Operating System	Windows® Embedded 7 Standard / Linux
	Windows® Embedded 7 Professional
	Windows® Industry Pro 8.1 Small Tablet
	Windows® 10 IoT Enterprise 2016 LTSB for Small Tablets
Display	TFT LCD 8 inch
	Touch type: Capacitive type. Option: 4 Wires resistive type
	Backlight Type: LED
	Display Resolution: 1024 x 768 (XGA) Luminance: 700 nits Sunlight readable
Network Interface	Integrated WLAN 802.11 b/g/n
	Integrated Blue Tooth 2.1 + EDR
Data Security	TPM 1.2
Control Switch and Buttons	1 x Power on/off button
	1 x Barcode Scanner trigger button
	1 x Function Key button (default on/off control WIFI, BT, 3G, GPS)
	3 x Function Keys (user define)
Indicator	1 Power / 1 HDD / 1 Battery status LED
Speaker & Microphone	Built-in speaker & microphone
Interfaces	
USB	2 x USB 2.0 Type A
DC Jack	1 x DC Power input (16V / 4A)
RS-232	1 x DB-9 RS232 Full function connector
Micro SD	1 x Micro Secure Digital (SD) card slot
Expansion Docking PORT	1 x 16 pin docking connector (Interface include Power, USB , Audio)
RJ45	1 x 10/100/1000 Ethernet, Support POE (Power-Over-Ethernet applications up to 25.5W)
SIM Socket	1 x SIM socket (located underneath the external battery pack)
Power	
AC/DC Adapter	Input AC: 100~240V Output DC: 16V / 4A
Battery Pack	Internal battery, one cell DC 3.7V/ 920mAh
	External 3S2P, 6 Cell, DC 10.8V/ 6800mAh
	Support Swap under S3 state
Physical	

Dimensions	251 x 181 x 39 (mm) (9.88" x 7.13" x 1.54")	
Weight	1.3Kg (2.8lbs) with batteries	
Option Functions		
WWAN	WCDMA R99 : maximum data rate of 384 kbps	
	HSDPA : Downlink Category 8 (7.2 Mbps) or 10 (14.4 Mbps)	
	HSUPA : E-DCH data rates of up to 5.76 Mbps for 2 ms TTI (UE category 6) uplink	
	GSM R99 : Supports CS SMS	
	GPRS : CS schemes – CS1, CS2, CS3, and CS4	
	CDMA 1xEV-DO : High-speed peak data rates of 3.1 Mbps on the downlink and 1.8 Mbps on the uplink	
GPS	CDMA 1x : Supports up to 153.6 kbps data throughput on both forward and reverse links	
	EDGE : Downlink coding schemes – CS 1-4, MCS 1-9	
	High performance positioning engine. Support 56 channels.	
Camera	GPS L1 Frequency, C/A code. SBAS: WAAS/ EGNOS/MSAS	
	Front (2M) & rear (5M) dual CMOS Camera	
Bar code scanner 1D or 2D (UART Interface)	1D Symbologies : All major codes	
	2D Symbologies : PDF417, MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QR Code, Micro QR Code, Aztec, Maxicode	
	Postal Codes : US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal Dutch Postal (KIX)	
	Scan rate : 60 frames per second	
	Scan Angle : 40° (Horizontal), 25° (Vertical)	
	Optical resolution : 752 (H) x 480 (V) pixels, 256 gray levels	
	Print Contrast : down to 25%	
	Image File Formats : BMP, TIFF and JPEG	
	MSR (USB Interface)	Media formats : ISO 7811, AAMVA, and other F2F formats
	Smart card reader	Swipe speed: 7 to 150 cm per second, bi-directional
Operating Life : 1,000,000 cycles minimum		
EMV 4.0 Level 1 spec certified		
RFID	Based on ISO7816 implementation	
	Support PC/SC 2.0 Smart Card industry standard	
Accessories	1. HF RFID : 13.56 MHz Mifare DESFire Reader / ISO 15693	
	2. UHF RFID : 860~ 960 MHz	
Included	Shoulder strap, Hand strap	
Optional	Docking station: 4 x USB, 1 x RS-232, 1 x RJ45, 1 x DC in, Earphone, Microphone, Battery charging bay	
	Vehicle & Wall mount: Standard VESA & DC in 12V~36V vehicle adapter, Stylus, 2 bay battery charger	

Operating Temperature	-10°C (14°F) to +50°C (122°F)	
Storage Temperature	-20°C (-4°F) to 70°C (158°F)	
Dust Protection	IP6x (dust)	IEC 60529 13.4 test Edition 2.1 2001-2
Water Protection	IPx5 (water)	IEC 60529 14.1/14.2.5 test Edition 2.1 2001-2
Vibration	5 Hz to 500Hz 2g/5g rms	MIL-STD-810G-514.6.E-2 Sine
	20Hz to 2000 Hz 7.69g rms	MIL-STD-810G-514.6.E-1 Random
Drop Test	Drop Height: 1200mm	
	Drop Onto: 4 corner	
	4 Edges 2 Faces	
Regulatory	CE / FCC / FCC ID / EN 60950-1 2005	



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