



Rugged Mobile Computing / **IB-8**



MSR



RFID



Barcode Scanner

IB-8

System	
CPU	Intel® Bay Trail-M Quad Core N2930 1.83GHz
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® Embedded Industry Pro 8.1
	Windows® Embedded Industry Pro Retail 8.1
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
Finger Print	E-field Swipe Fingerprint Sensor
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)
HDMI	1 x Mini HDMI connector
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 11.1V/ 6200mAh
	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
Camera	High performance positioning engine. Support 56 channels.
	GPS L1 Frequency, C/A code. SBAS: WAAS/ EGNOS/MSAS
Bar code scanner 1D or 2D (UART Interface)	Front (2M) & rear (5M) dual CMOS Camera
	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
	Swipe speed: 7 to 150 cm per second, bi-directional Operating Life: 1,000,000 cycles minimum
Smart card reader	EMV 4.0 Level 1 spec certified
	Based on ISO7816 implementation Support PC/SC 2.0 Smart Card industry standard
RFID	1. HF RFID: 13.56 MHz Mifare DESFire Reader / ISO 15693
	2. UHF RFID: 860~ 960 MHz
Accessories	
Included	Shoulder strap, Hand strap
Optional	Docking station: 4 x USB, 1 x RS-232, 1 x VGA, 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)	Operating	
Storage Temperature	-20°C (-4°F) to 70°C (158°F)	Non-operating	
Dust Protection	IP6x (dust)	IEC 60529 13.4 test Edition 2.1 2001-2	Non-operating
Water Protection	IPx5 (water)	IEC 60529 14.1/14.2.5 test Edition 2.1 2001-2	Non-operating
Vibration	5 Hz to 500Hz 2g/5g rms	MIL-STD-810G-514.6,E-2 Sine	Non-operating
	20Hz to 2000 Hz 7.69g rms	MIL-STD-810G-514.6,E-1 Random	Non-operating
Drop Test	Drop Height: 1200mm		Non-operating
	Drop Onto: 4 corner		
	4 Edges 2 Faces		
Regulatory	CE / FCC / FCC ID / EN 60950-1 2005		



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