

JNB-1404

Fully Rugged Notebook with Mobile Intel® GME965 Platform



1
PICMG

2
SBC & SoM

3
CompactPCI

4
Network

5
BoxPC & Special IPC

6
HMI & TabletPC

7
Rugged Series

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Rugged Series

Features

- Adopts Intel® Core™ 2 Duo L7500 processor, fanless design
- 13.3" TFT LCD with tempered glass, optional sunlight readable LCD
- Magnesium alloy shell with reinforced rubber edge covering
- MIL-STD-461F and MIL-STD-810G(IP65) certified
- Flexible Media Bay Feature, supports up to 4 function modules
- Optional fingerprint identification and camera
- Supports optional expansion docking



SPECIFICATIONS

Processor	Mobile Platform	Intel® Core™ 2 Duo 1.6GHz low-power consumption processor
	L2 Cache, FSB	4MB Cache, 800MHz FSB
Chipset	North Bridge	Mobile Intel® GME965 Express chipset
	Graphics Controller	Integrated Intel® GMA X3100 3D graphics controller, up to 500MHz core speed
		Max. 256MB shared memory
	South Bridge	ICH8-M
Memory	Onboard Memory	Onboard 512MB DDR2 667 memory
	Memory Expansion Slot	1 x 200-pin SO-DIMM socket, up to 2GB DDR2 667 memory
	Max. Memory	2.5GB DDR2 667 memory
Display	LCD Size	13.3" TFT LCD
	Resolution	XGA, 1024 x 768
	Tempered Glass	Standard
	Sunlight Readable LCD	Optional
	Touch Screen	N/A
	External VGA	1 x VGA(15-pin D-sub)
Storage	Primary Storage	1 x 80GB wide-temperature shock-mounted HDD, optional 250/320/500 GB
	Secondary Storage	Optional 64/128GB wide temperature SATASSD (shock-mounted, -40°C ~ 85°C)
		Optional secondary storage pack
Please Connect EVOC for others capacities of storage devices with different capacities.		
Multimedia Bay	Optical Driver(Standard)	Removable Ultra-Slim Combo, DVD-ROM or DVD-R/W
	Secondary Battery(optional)	Removable hot-swap secondary battery pack
	Secondary Storage(optional)	Removable Secondary SATAHDD or SSD
	3" and 4" Serial Port(optional)	Optional removable serial port box(with 2 x RS-232/422/485)
		Optional Fixed 2 x RS-232/422/485

Note: Above function modules are optional, and the multimedia bay can only accept one of them.

Keyboard	Silicone Keyboard	Silicone keyboard (with backlight, waterproof, dustproof)
Touch-Pad	Capacitive	Yes (default)
	Resistive(humid environments)	Optional
I/O Interface	Serial Port	2 x RS-232/422/485(9-pin D-sub) Optional ruggedized connector
Note: The communication mode of serial ports can be set up by jumper in the factory. Default RS-422 for these two serial ports. Please assign communication modes if you need the others mode in initial stage.		
	USB2.0	3 x USB2.0
	IEEE 1394	1 x IEEE1394b interface(firewire)
	Audio-out	1 x Audio-out (Mini-jack)
	Mic-in	1 x Mic-in (Mini-jack)
	Internal Speaker	Internal 4-watt stereo speakers
Communication Interface	Ethernet	1 x 10/100/1000Mbps LAN port (RJ-45)
	Internal Modem	Optional 56Kbps ITU V92m modem(RJ-11)
	WiFi	Optional 802.11a/b/g
	Bluetooth	Optional
	GPS	Optional GPS module with internal antenna
	3G	Optional 3G module
Note: The WiFi and 3G modules are optional, and can only accept one of them simultaneously.		
Camera	1.3 mega pixel camera	Optional
Expansion slot	PCMCIA	1 x PCMCIA Type II, supports 16-bit PC card and 32-bit Cardbus
	Express Card	1 x Express Card/54mm
	Card Reader	1 x 5-In-1 card reader, supports SD/MS/MS-Pro/XD/MMC
	Docking	1 x Docking Connector
Security Features	Fingerprint Identification	Optional fingerprint reader
	Kensington Lock	Yes
Power Supply	Primary Battery Pack	1 x 6800mAh or 7800mAh battery pack, removable, hot-swap capability
	2nd Battery Pack	Optional 3700mAh 6-cell battery pack, removable, hot-swap capability
	DC Input Connector	1 x 4-pin normal connector Optional ruggedized connector
	AC Adapter	100V~240V 50/60Hz AC input, normal 4-pin DC output connector Optional ruggedized DC output connector (waterproof)
	Vehicle DC Adapter	Optional 90W vehicle DC adapter with normal 4-pin output connector, 9V to 32V DC input Optional ruggedized output connector

Mechanical and Environmental

Physical Characteristics	Material	Full magnesium alloy case
	Dimensions	328mm x 272mm x 46mm (W x H x D)
	Weight	3.8kg (Exclude battery, storage drive and DVD)
Rugged Features	EMC/EMI	MIL-STD-461F certified
	Working Temperature	-20°C ~ 60°C/ -4°F ~ 60°F, MIL-STD-810G method 501.5 and 502.5 procedure II
	Storage Temperature	-40°C ~ 70°C/ -40°F ~ 158°F, MIL-STD-810G method 501.5 and 502.5 procedure I
	Relative Humidity	95%RH, non-condensing, MIL-STD-810G method 507.5 procedure II
	Anti-Vibration	20~2000Hz/7.7g(Non-operating, X,Y, Z axis), MIL-STD-810G method 514.6 20~2000Hz/1.9g(Operating, X,Y, Z axis), MIL-STD-810G method 514.6
	Transit Drop	120cm/48-inch height drops, MIL-STD-810G method 516.6
	Operating Altitude	15,000ft at 2,000ft/min, MIL-STD-810G method 500.5
	Water Resistance	IP65 compliant(Anti water spray, drip rain), MIL-STD-810G method 506.5 procedure III
	Conformal Coating	Optional Anti-Fungus and Anti-Salt Fog compliant

Ordering Information

Part Number	Model	Description
0010-021240	JNB-1404	Intel Core Duo L7500/2.5GB RAM/80G wide-temperature HDD/13.3" LCD /DVD-ROM/WiFi/Bluetooth/fingerprint reader/camera/Modem/7800 mAh battery/AC adapter
0010-028570	JNB-1404-1	Intel Core Duo L7500/2.5GB RAM/13.3" Sunlight readable LCD/WiFi/Bluetooth/fingerprint reader/camera/Modem /AC adapter
0010-028580	JNB-1404-2	Intel Core Duo L7500/2.5GB RAM/13.3" Sunlight readable LCD/COM-BDWiFi/AC adapter
0010-028590	JNB-1404-3	Intel Core Duo L7500/2.5GB RAM/13.3" LCD/fingerprint reader/camera/AC adapter
0010-028600	JNB-1404-4	Intel Core Duo L7500/2.5GB RAM/13.3" LCD/AC adapter
0010-026250	JNB-1404-5	Intel Core Duo L7500/2.5GB RAM/13.3" LCD/3G(CDMA2000)/Bluetooth/3G/fingerprint reader/Modem /AC adapter with military connector

Optional Accessories

1100-001211	Primary battery pack	7800mAh/9-cell primary battery
1100-000371	Secondary battery pack	3700mAh/6-cell secondary battery
1100-000261	80G HDD Module	80G wide-temperature shock-mounted HDD module (-30°C ~ 85°C, 8M cache, SATA300MB/s)
1100-000251	250G HDD Module	250G shock-mounted HDD module
1100-001421	JNB-1404 DVD-ROM module	DVD-ROM(IDE connector, special for JNB-1404-05), CD/DVD recordable, CD rewritable
1460-056261	JNB-1405 DVD-R/W module	DVD-R/W(SATAconnector, not for JNB-1404-05), CD/DVD readable, recordable and rewritable
1100-001251	Vehicle Adapter/Normal	Vehicle DC adapter, 9V to 32V DC input, 19V DC output with normal 4-pin connector
1100-001261	Vehicle Adapter/Ruggedized	90W vehicle DC adapter with ruggedized output connector, 9V to 32V DC input
0020-043680	Vehicle Docking	JNB-1401 serials vehicle docking

* Please contact EVOC for other functions or configurations