

# JNB-1404

13.1" / 14.1" Fanless Rugged Laptop with Intel® Core™2 Duo Processor



### Features

- 13.1" / 14.1" fanless rugged laptop
- Intel® Core™2 Duo L7500 processor
- Intel GME965 chipset
- Max. 2GB + 512MB DDRII 667Mhz memory
- IP54 protection

### Specifications

Model	JNB-1404-3	JNB-1404-4
<b>Processor</b>	Intel® Core™2 Duo processor FSB L2 cache	L7500 1.6GHz LV processor FSB 800MHz 4M
<b>Chipset</b>	Northbridge Southbridge	Intel GME965 ICH8-M
<b>Memory</b>	DDR2(1 x SO-DIMM) + onboard	Max. 2GB + 512MB DDRII 667
<b>VGA Controller</b>	Graphics controller TFT LCD	Intel GMA X3100 13.3" XGA (1024 x 768)
<b>Display</b>	Sunlight readable LCD protection screen	YES YES
<b>HDD</b>	SATAHDD	Removable SATA 5400RPM 80GB(wide temperature HDD)
<b>Media Bay</b>	DVD-ROM(standard), Combo(optional), DVD-dual(optional), 2" battery pack(optional), COM board(two RS 232/422/485)(optional) Waterproof membrane	2" Battery pack Optional media bay, 2" Li-ion battery(3700mAH) Board(TWO RS232/422/485)(optional)
<b>Keyboard</b>	Waterproof rubber backlight Touch pad PCMCIA Express card Card reader	Standard Capacitance type touchpad 1 x PCMCIA type II 1 x Express card type II Card reader 5 in1 MS/MS-Pro/XD/SD/MMC ALC 888
<b>Audio/Camera</b>	Audio chip	Standard Capacitance type touchpad 1 x PCMCIA type II 1 x Express Card type II Card reader 5 in1 MS/MS-Pro/XD/SD/MMC ALC 888
<b>I/O Port</b>	Speaker Camera Serial port USB 2.0 External VGA 1394B(Mini) Parallel port RJ-45 RJ-11 Microphone Line-out IrDA	Built-in, internal microphone External microphone Stereo 4W speakers 130M pixels NONE 2 3 1 1 x IEEE 1394B N/A 1 x RJ45 1 x RJ11 1 x Mic-in 1 x Line-out N/A

I/O Port	1	1
Docking port	1	1
DC in	1	1
<b>Communication Interface</b>	10/100/1000 base-T Ethernet 56Kbps ITU V.92 modem Intel PRO/Wireless 3945a/b/g Bluetooth	10/100/1000 Base-T Ethernet 56k ITU V.92 Modem Intel Pro/wireless 3945 b/g Bluetooth v1.2 CLASS 1
<b>Security</b>	TCM 1.2 Fingerprint Kensington Lock	TCM 1.2(optional) Fingerprint Yes
<b>Power</b>	Adapter(90w) Li-ion Smart battery 6600mAh Operating system	AC Adapter(90W, 100-240V, 50/60Hz) Li-ion Smart (6600mAH) Windows XP Home Edition (English) Windows XP Professional Edition (English) Windows XP Embedded (English)
<b>Physical</b>	Dimensions(W x D x H) Weight	Linux 328 x 272 x 46 4.2kg
<b>Port on Vehicle Docking</b>	Serial port Parallel port USB 2.0 PC/104 PCI slot PCI-E x1 DC input	2 1 2 1 x PC/104 2 x PCI 2 x PCI-E x1 1

### Environmental Test Specifications

Item	Test Criteria
Temperature	According to IEC 68-2-1,2,14 / MIL-STD-810F, Method 501.4, 502.4 Operating: -20°C to 55°C Non-operating: -40°C to 70°C
Humidity	According to IEC 68-2-30 / MIL-STD-810F, Method 507 45% to 95% RH, non-condensing
Altitude	According to IEC 68-2-13/ MIL-STD-810F, Method 500.4 Operating: 15,000 ft Non-operating: 40,000 ft Altitude change rate: 2,000 ft/min
Shock	According to IEC 68-2-27/ MIL-STD-810F, Method 516.5
Drop	According to IEC 68-2-32 / MIL-STD-810F, Method 516.5
Vibration	According to IEC 68-2-6 / MIL-STD-810F, Method 514.5
ESD	According to IEC1000-4-2
Enclosure	According to IEC 529, NEMA, MIL-STD-810F, Method 506.4, 510.4 IP54 compliance
EMC	MIL-STD-810F Series(standard) MIL-STD-461E Series(optional) GJB 150 Series(standard) GJB 151A Series(optional) GJB 152A Series(optional)

### Available Accessories

Part Number	Name	Description	Qty.
2360-024491	Power supply cable/KING-CORD/RoHS	KC-015A connector to KC-008 connector/length:1.5mm/H05W-F/K5A081H5150	1
	User's Manual/RoHS	JNB-1404	1
	Driver CD (protective film)	JNB-1404	1
2100-060971	Power adapter/EPS/RoHS	90/F10903-A(85)R/round head 4-pin	1
2100-059341	DVD-ROM/RoHS	DVD-ROM/CD-RW/DRIVE/DW-224E-V83/-V93	1
1100-000231	Lithium-ion battery pack/RoHS	JNB-1404/9-cell battery pack	1
2360-027121	(YF)MODEM telephone line/JNB-1404/RoHS	Telephone line, length: 1.5m (outsourced)	1
2401-006501	(YF)Accessories box/RoHS	420x365x53mm/K3K/JNB-1404	1

### Ordering Information

Part Number	Model Number	Description
0010-015090	JNB-1404/Rugged Laptop	Complete PC:L2400/512M/80G/90WPOWERSUPPLY/JNB1401-945-MB/JNB1401-HDD-FPC-BD Converter board/JNB-1404
0010-015091	JNB-1404/Rugged Laptop	Complete PC/RoHS:L2400/512M/80G/90WPOWERSUPPLY/JNB1401-945-MB/JNB1401-HDD-FPC-BD Converter board/JNB-1404
0020-034831	JNB-1404/no power supply/no backplane	Empty chassis/RoHS
0020-034830	JNB-1404/no power supply/no backplane	Empty chassis