

**Strong design and reliability.**

Our Rugged Portables products extend the range of Beltronic product into the Harsh Industrial and Military Markets, sacrificing nothing of the ergonomic design in our work but meeting the rugged demands head on. Resistance to humidity, dust, shock and vibration is achieved by the complex and unique engineering of the electronic as well as an enclosure (case). Built on the principles of a ship's porthole, the success of the Beltronic Systems rests on the fundamentals of strong design and reliability.



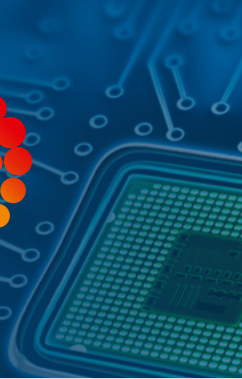
## Bit-RNB 1516-M230

Bit-RNB 1516-M230 Rugged Notebook

Bit-RNB 1516-M230		System
<b>Processor and Chipsets</b>		
Processor Type		Intel Pentium-L2400 Core Duo Low Voltage Processor (1,66 GHz)
CPU front side bus - Cache		667 MHz FSB - 2 MB L2 cache
Intel Chipset		Intel 945GM + ICH7-M
<b>System Memory</b>		
Memory		512 MB SO DIM DDR2 (up to 2 GB)
<b>Display</b>		
Type Size Resolution		Anti reflective TFT 15,1" SXGA+, 1400 x 1050, 256k colors
<b>Graphic Controller</b>		
Chipset		Integrated in Intel Chipset + Intel GMA950 Graphic Controller
Memory		Up to 128 MB shared memory
<b>Integrated Drives</b>		
Hard disk		Removable 2.5" EIDE Drive 80 GB SATA
Optical Drive		Removable CD-RW / DVD combo drive with Burning Software
Controller		Azalia 32 bits Audio digital controller - Build-in Stereo 2W speaker
<b>Audio</b>		
<b>Communication</b>		
Wireless LAN		Intel PRO / Wireless 3945 802.11 a/b/g
Wired LAN		Intel Pro 10/100/1000 Base-T Ethernet
Modem		Integrated 56k, V92 analog modem
<b>PC Card</b>		
Controller		Two slots, 2 x Type II or 1 x Type III slots - 32-bit CardBus
<b>Input Devices</b>		
<b>Keyboard</b>		
Number of Keys		82-key, water- & dust-proof membrane keyboard
Languages Available		German, English US, English UK, Danish, Spanish, French, Italian, Russian (others, on request)
<b>Pointing Device</b>		
Type - Interface - Operation		Touch pad - PS/2 compatible - 2 buttons
<b>External Interfaces</b>		
Serial Ports		1x RS232 , 9-pin DSUB
PS/2		MiniDin PS/2 for external mouse
USB		2 x USB 2.0 Ports
Parallel Port		1 x 25-pin DSUB, EPP/ECP
VGA		1 x 15-pin DSUB, for analog CRT / Beamer
Audio		External output, Microphone jack
Docking Port		PO GO hot docking port
LAN		RJ45 10/100/1000
Modem		RJ11 56K V92
DC input		19 V DC
<b>Power</b>		
AC input		100/240 VAC, 50/60 Hz 90 W max (via external AC adapter)
<b>Battery</b>		
Primary Battery		Removable Li-Ion SmartBattery (About 5 hours without ATI graphic chipset)
<b>System Dimensions &amp; Weight</b>		
Approx. Weight		4.4 kg
Approx. Dimensions		46height * 286depth * 338width mm (without handle)
<b>Operating System</b>		
		MS Windows 2000, MS Windows XP, Windows VISTA, Linux (others, on request)



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- **Thinnest Rugged Notebook**
- **IP54 Protection**
- **15" TFT SXGA+ display**
- **Mil-Std-810F Compliant**
- **Mil-Std-461E (Optional)**

### Available Options

<b>Touchscreen</b>	Resistive Touch Screen Option
<b>Daylight Readability</b>	Daylight readable polarized filter display
<b>FireWire</b>	IEEE1394B FireWire option (instead of PS/2 interface)
<b>Video Chipset</b>	ATI M54 VGA controller with 128MB memory
<b>Optical Drive</b>	Removable DVD-RW dual layer drive
<b>Hard Disk Capacity</b>	Maximum available capacity 2.5" EIDE SATA industrial drives
<b>Communications</b>	Wireless Modem GPRS/GSM, GPS modules (with integrated antennas), Bluetooth, 2 <sup>nd</sup> RS232 COM port
<b>Battery</b>	Additional removable battery (instead of optical drive) – Autonomy = About 2.5 additional hours
<b>Rubber Keyboard</b>	Back lighted Rubber keyboard
<b>Power Adapter</b>	External car adapter 12-32 VDC input
<b>Battery Charger</b>	External charger for MAIN and secondary batteries
<b>Mounting Kit</b>	Vehicle Mounting Kit with and without Car- Adapter
<b>Environmental</b>	-20°C preheating option for HDD, MIL STD 461E (CE102, CS114, 115 & 116, RE102, RS103), TEMPEST (consult factory) ...

### Environmental Specifications

<b>Temperature</b>	Per IEC 68-2-1,2,14 / MIL-STD-810F, Method 501.4, 502.4
Operating	0 °C to +55 °C (Standard)
Non-Operating	-40 ° to +70 °C (tested)
<b>Humidity</b>	Per IEC 68-2-30/MIL-STD-810F , Method 507.4
Relative humidity	5 % to 95 % Relative humidity, non-condensing
<b>Altitude</b>	Per IEC 68-2-13 / MIL-STD-810F , Method 500.4
Altitude change rate	600 meters/min
Operating	4570 meters
Non-operating	12190 meters
<b>Enclosure Class</b>	Per IEC529, MIL-STD-810F Method 506.4, 510.4 IP 54 (all I/O covers closed)
<b>Vibration</b>	Per IEC 68-2-6 / MIL-STD-810F, Method 514.5
Operating	10~55Hz/0.075g, 55~500Hz/1.0g
Non-Operating	10~55Hz/0.15g, 55~500Hz/2.0g
<b>Shock</b>	Per IEC 68-2-27 / MIL-STD-810F, Method 516.5
Operating	15g , 11 ms, half sine wave
Non-Operating	50g, 11 ms, half sine wave
<b>ESD</b>	Air Discharge: 0KV~8KV(included) - Contact Discharge: 0KV~6KV
<b>Explosive</b>	Explosive test Per CSA Class 2.1
<b>Drop</b>	Per IEC 68-2-32 / MIL-STD-810F, Method 516.5 1,2 meter height free drop still survive (on concrete)
<b>Regulation</b>	Regulation FCC part 15, Subpart B, CE Class B, UL, CUL, TUV, CE, CCC, WHQL, BSMI, RoHS, WEEE

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