

RUGGED NOTEBOOKS

RNB 230

14/15" Intel Core™ Duo Rugged Notebook



The RNB 230 is the latest notebook laptop computer that meets and exceeds the standards set by the military (810F, 461E) and industry (IP54). RNB 230 features a large bright 14.1"/15" TFT XGA LCD screen with 128MB of shared RAM that provides vibrant images. For direct sunlight applications, an optional outdoor viewable display and touch screen option are also available. Behind the display is the latest Intel® Core™ Duo Low Voltage Technology for true speed and wireless portability. The 1.66Ghz processor is enhanced with up to 4GB of DDR II memory, a 667MHz FSB and optical drives.

The main battery provides for up to four hours of continuous operation.

Rugged NoteBooks Inc.
1574 N. Batavia St. Suite #2
Orange, CA 92867
TEL: 714-998-1828
FAX: 714-998-1860
TOLL FREE: 866-278-4433
(866 2RUGGED)



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	RNB 230 Notebook Specifications
CPU	<ul style="list-style-type: none"> Intel® Core™ Duo L2400 Processor LV 1.66GHz Duo 667MHz FSB in µ-FCBGA Package with 2MB On-die L2 Cache
Core Logic	<ul style="list-style-type: none"> Intel® 945GM (Northbridge) + ICH7-M Chipset (Southbridge)
Memory	<ul style="list-style-type: none"> 512MB Expandable to 4GB (Due to installed Graphics only 3.24GB will be usable noted in Device Manager)
BIOS	<ul style="list-style-type: none"> ACPI 1.1b Capability and PC2001 Compliance 256KB Flash EEPROM Includes System BIOS, VGA BIOS, Plug and Play
Video System	<ul style="list-style-type: none"> Integrated in Intel GMA950 Chipset, 128MB Shared System Memory 32bit 2D/3D Graphic Core with Dynamic Video Memory Technology Dual View Function / LCD/CRT Simultaneous Display Capability Optional ATI M54 Discrete VGA Controller with 128MB VRAM
Display	<ul style="list-style-type: none"> 14.1" TFT XGA (1024X768) LCD with LCD Protection Screen 450 Nits with Touch Screen 425 Nits Optional 15.0" TFT SXGA (1400X1050) LCD with LCD Protection Screen 340 Nits with Touch Screen 320 Nits Optional Touch Screen / Sunlight Readable Panel (High-Bright LCD)
Hard Disk	<ul style="list-style-type: none"> Built in Easily Removable Hard Drive, Standard: 80GB SATA (1.5G's), Expandable to 160GB Optional Solid State Hard Drive (s), Optional Extreme Condition(s) Hard Drives (Vibration, Shock, Heat, Cold, Altitude) Optional HDD Heater for Low Temperature (-20°C ~ 55°C) Support
Media Bay	<ul style="list-style-type: none"> CDRW/DVD Combo Drive (Standard); Optional CDRW/DVDRW Dual Drive or Optional FDD Drive or 2nd Battery
Communication Interface(s)	<ul style="list-style-type: none"> Built-in 56Kbps V.92 Modem (RJ-11) 10 / 100 / 1000 Base-T Ethernet (RJ-45) Intel Pro Wireless 3945 802.11a/b/g Optional GPS with Internal Antenna or Bluetooth (V2 Class 2) or EV-DO / GSM / GPRS / EDGE / UMTS / HSDPA
Expansion Slots	<ul style="list-style-type: none"> (2) Type II or (1) Type III PCMCIA Slot(s) with Card Bus Support
Keyboard	<ul style="list-style-type: none"> Waterproof Membrane Keyboard Optional Waterproof LED Rubber Backlight Keyboard Optional Spanish Keyboard
Pointing Device	<ul style="list-style-type: none"> Capacitance Type Touch Pad; Optional: Pressure Sensitive Touch Screen
I/O Ports	<ul style="list-style-type: none"> Serial Port / DC-in Port / Docking Port (POGO) / External VGA Port / (2) USB 2.0 Ports Earphone-out Port / Microphone-in Port / RJ11 Modem Port / RJ45 LAN Port Parallel (Swappable to Serial) Port / PS2 (Swappable to IEEE 1394B) Port / IrDA Port
Audio	<ul style="list-style-type: none"> Azalia 32 Bits Audio Digital Controller Stereo (2) 2W Speakers / External Microphone-in Port / Headphone-out Port
AC Adapter	<ul style="list-style-type: none"> 90W, 100-240V, 50-60Hz, Optional International Power Adapter(s)
Battery	<ul style="list-style-type: none"> Main Battery Li-Ion Smart Battery 7800mAh (4 Hours) Secondary Battery Li-Ion Smart Battery 3700mAh (2.5 Hours)
Operating System	<ul style="list-style-type: none"> Support Microsoft® Windows XP Professional
Dimensions/Weight	<ul style="list-style-type: none"> 14" 12.9"(W) X 10.7" (D) X 1.8" (H) 15" 13.3"(W) X 11.3" (D) X 1.8" (H) 328 (W) X 272mm (D) X 46mm (H) / 9.16 lbs (4.15kg) 338 (W) X 286mm (D) X 46mm (H) / 9.9 lbs (4.4kg)
Available Accessories (Partial List)	<ul style="list-style-type: none"> Carry Bag, Primary Battery, Media Bay 2nd Battery, Battery Charger, Vehicle dock with Port Replicator (USB I/F) Vehicle Mount without Port Replication, Vehicle Adapter/Charger (90 Watts 12-32V DC), Rubber Backlight LED Keyboard Spare AC Adapter, External USB Floppy Drive, Internal Bluetooth, Internal GPS, IEEE 1394B Firewire
Media Bay Options	<ul style="list-style-type: none"> Extra Battery / CDRW/DVD Combo Drive / DVD/RW (+/-) Dual Layer Drive
Docking Station I/O Specifications	<ul style="list-style-type: none"> (2) Serial Port (from USB I/F), Parallel Port (from USB I/F), (2) BNC S-Video (from USB I/F), USB, POGO Docking Port Microphone Port, Line-Out Port GPS Pass Through Antenna Wireless Lan Pass Through Antenna
Features of Docking Security	<ul style="list-style-type: none"> Start Car Ignition, Charge via Car Adapter, Power On Indicator, (2) 2 Watt Stereo Speakers
Security	<ul style="list-style-type: none"> TPM 1.2 Kensington Lock Smart Card Read (Occupies One PCMCIA Type II Slot)
Environmental Specifications	
Temperature	<ul style="list-style-type: none"> According to IEC 68-2-1, 2, 14 / MIL-STD-810F, Method 501.4, 502.4 Operating: 0°C (32F) to 55°C (131F) -20° (4°F) to 55°C (131°F) with Low Temperature Option Non-Operating: -40°C (-40°F) to 70°C (158°F)
Humidity	<ul style="list-style-type: none"> According to IEC 68-2-30 / MIL-STD-810F, Method 507 45% to 95% RH, Non-condensing
Altitude	<ul style="list-style-type: none"> According to IEC 68-2-13 / MIL-STD-810F, Method 500.4 Operating: 15,000FT, Non-operating: 40,000FT, Altitude Change Rate : 2,000 FT/min
Vibration	<ul style="list-style-type: none"> According to IEC 68-2-6 / MIL-STD-810F, Method 514.5
Shock	<ul style="list-style-type: none"> According to IEC 68-2-27 14 / MIL-STD-810F, Method 516.5
Drop	<ul style="list-style-type: none"> According to IEC 68-2-32 / MIL-STD-810F, Method 516.5 3 Feet Height Free Drop on Steel Plate, 4 Feet Height Free Drop on Wood Plate, Test 26 Times Survived
Enclosure	<ul style="list-style-type: none"> According to IEC 529, NEMA, MIL-STD-810F, Method 506.4, 510.4, IP54 Compliance
Regulation	<ul style="list-style-type: none"> FCC , UL , CUL, TUV, CE, CB, CCC , PSE, WHQL BSMI, e-Mark
E.S.D.	<ul style="list-style-type: none"> According to IEC 1000-4-2
EMI/EMC	<ul style="list-style-type: none"> Optional MIL-STD 461E Upgrade (Includes EMI-461E AC Adapter)

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