



# RUGGED CONVERTIBLE LAPTOP

MIL-STD-810F / MIL-STD-461E



Meeting the requirements of MIL-STD-810F for drop, vibration and temperature, as well as MIL-STD-461E for EMC requirements, the ndura RUGGED® Convertible Laptop provides reliable computing anywhere, anytime.

Offering an array of wireless capabilities, this rugged convertible laptop can provide continuous communication. Built for rugged mobility, the ndura RUGGED® Convertible Laptop offers intuitive design for easy operation and weighs in at 4.1Kg

The ndura RUGGED® Convertible Laptop is powered by an Intel® Core™ 2 Duo ULV U7500 1.066GHz processor, with 2 GB RAM as standard (upgradeable to 4Gb) providing speed and performance in demanding applications. The 13.3" TFT provides a high resolution, convertible display, ensuring clear, sharp images with optional high brightness and sunlight readability.

## FEATURES INCLUDE:

- MIL-STD-810F
- MIL-STD-461E
- Rugged Design
- Eclipt Drive Compatible
- Convertible Rugged Touch Screen
- Sunlight Readability
- Integrated DVD/CD RW Drive
- Backlit Keyboard
- Fanless Design
- Rich I/O Port Array



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# TECHNICAL SPECIFICATION



ndura RUGGED CONVERTIBLE LAPTOP\_v032010Rev2

Technical Specifications quoted are qualified and verified but do not indicate the maximum performance limitations of the equipment. Specifications are subject to change without notice. E & OE Issue A



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<b>PROCESSOR</b>	Intel® Core™ 2 Duo ULV U7500 1.066GHz Merom-2m (65nm) 2MB L2 Cache, TDP 10W
<b>BIOS</b>	Phoenix Trust Code Base
<b>CHIPSET</b>	Intel® GM965, TDP 13.8W Southbridge ICH8M (Chipset)
<b>MAIN MEMORY</b>	2GB DDR II 667 MHz X 1 (up to 4GB)
<b>DISPLAY</b>	13.3" wide Active Matrix TFT WXGA 1280 x 800, Convertible Display Resistive Touch Panel Support, Rebounding Sunlight Readable Display 600 Nits (cd/m2)
<b>GRAPHICS</b>	Intel® GM965 Integrated Graphics
<b>CRT DISPLAY</b>	Up to QXGA 2048 x 1536
<b>STORAGE</b>	2.5" SATA HDD 250Gb, 5400RPM With Heater & Pass 810F Cold Start Test Shock-mounted Removable HDD
<b>CARD SLOT</b>	PCMCIA 2.1 supports Type I/II (PC Card) SD Card Reader
<b>CONNECTIVITY</b>	WLAN : 802.11ABGN (a/b/g/Draft-N 2.0) GOLAN WLAN INTEL/WM3945AGM2GEN (Mini PCI-e) LAN : 10/100/1000 PAN : Bluetooth 2.1 Class II GPS Receiver Support Modem 56kbps (V.92) Military Connectors (OPTIONAL)
<b>OPTICAL DEVICE</b>	Integrated CD-RW / DVD-RW Dual Layer Drive
<b>LED STATUS INDICATOR</b>	Power on/Suspend Battery Full / Charging / Low HDD Access WLAN Connectivity Bluetooth Connectivity Caps Lock
<b>INTERFACE</b>	1 x LAN RJ45 1 x VGA / D-sub 15-pin for external monitor 3 x USB 2.0 A ports 1 x Audio Jack : Ear Phone Out 1 x Audio Jack : MIC-in 1 x DC-in 1 x SIM Card 1 x Array Microphone 1 x PC Card Slot 1 x SD Card Reader 1 x Docking Connector (PoGo Pin) 1 x RS-232 1 x RJ11
<b>AUDIO</b>	HD Audio Built-in speaker x 2 (Total MAX:4W) Microphone x 2 (array microphone)
<b>KEYBOARD</b>	87 keys for UK / EU LED Backlit keyboard Compliant IP-65
<b>POWER MANAGEMENT</b>	ACPI 3.0 Supported
<b>BATTERY LIFE</b>	Li-Ion 9 cells, 7800 mAh up to 8 Hours, Built-in gauge IC Charging Time : 2.5 hrs to 80%
<b>AC ADAPTOR</b>	Output: 19V DC, 4.74A, 90W Input: 100-240V AC, 50/60Hz universal 3 pin compact power supply system MIL-STD 461E Ground Army
<b>POINTING DEVICE</b>	Built-in Resistive Touch Screen with Stylus
<b>HEAT DISSIPATION</b>	Fan-less design Total thermal envelope
<b>DIMENSIONS / WEIGHT</b>	344mm x 298mm x 58mm Weight < 4.1KG

<b>SECURITY</b>	TPM 1.2 (Trusted Platform Module Security Chip), Fingerprint Recognition BIOS setup, Power-on, HDD User Password Protection Kensington Lock
<b>HOT KEY</b>	SAS Key Screen Rotation Key Virtual keyboard RF Switch Brightness up/down
<b>IP RATING</b>	IP54 / MIL-STD-810F
<b>REGULATION</b>	EMI: FCC, CE, MIL-STD-461E Ground Army Safety: CB, cUL, UL Modem: Universal PPT including US(FCC-B), TWN(DGT), PRC (FCC68), JPN(JATE), EURO(CTR21)
<b>WINDOWS CERTIFICATION</b>	Compatibility: HCT V12.0 / DTM (Vista) Supported OS: Windows XP Tablet PC Edition / Windows Vista Business 32 bit.
<b>ENCLOSURE</b>	<b>Water Resistance</b> According to MIL-STD-810F 506.4, Procedure II, IEC 60529 Edition 2.1 : 2001-02-IPX4 (International Electro Technical Commission Publication) <b>Dust Resistance</b> According to MIL-STD-810F 510.4, Procedure I, IEC 60529 Edition 2.1 : 2001-02-IP5X (International Electro Technical Commission Publication)
<b>DROP</b>	According to MIL-STD-810F 516.5 Procedure VI, 26 times from 122cm height free drop onto 5cm Fir Board backed by concrete
<b>TEMPERATURE</b>	<b>High Temp</b> According to MIL-STD-810F 501.4, Procedures I (Storage) and II (Operation) <b>Low Temp</b> According to MIL-STD-810F 502.4 Procedures I (Storage) and II, III (Operation) Operating: Standard: -20°C to 60°C <b>Boot Operating</b> -20°C to 60°C (with HDD Heater) <b>Non Operating</b> -20°C to 60°C
<b>OPERATING SYSTEM</b>	<ul style="list-style-type: none"> <li>Windows Vista Business</li> <li>Windows XP for Embedded Systems </li> </ul>
<b>VIBRATION</b>	<b>Random Vibration Test (Operating)</b> According to ASTM 4169-99 Truck Assurance Level II Schedule E <b>Random Vibration (Non Operating)</b> According to MIL-STD-810F Method 514.5, Procedure I Category 24, Fig.514.5C-17 <b>Sine Vibration (Non Operating)</b> According to MIL-STD-810F Method 514.5, Procedure I Category 24, Fig.514.5C-18
<b>HUMIDITY</b>	According to MIL-STD-810F 507.4 Procedure I (Storage) Procedure II (Operation)
<b>ALTITUDE</b>	According to MIL-STD-810F 500.4 Procedure I (Storage) Procedure II (Operation)
<b>EMC</b>	According to MIL-STD-461E TEMPEST Option
<b>ACCESSORIES</b>	Spare Battery UK Power Cable as standard

