The ruggedly sleek, all out weather-proofed NCS Magnus Rugged Notebook is specifically designed for the military, law enforcement or industrial professional on the go. The Magnus is a durable and reliable mobile computing platform encased in a Magnesium alloy shell that is impermeable to dust and water spillage and can even withstand an accidental drop (up to three vertical feet). It also features the Intel® Core™ Duo U7600, the newest in low power consumption processors, which helps to promote longer battery life. In addition, each Magnus is equipped with a 10.4” XGA or 12.1” WXGA 180° rotatable screen to transform from a notebook to a tablet, offering versatile adaptability for office or field work. Motorized support comes in the form of an optional vehicle docking station, housing an expansive array of ports and connectors. No matter the working environment, the Magnus comes readily outfitted with connectivity options ranging from the “tried and true” wired modem and LAN combination to the wireless connection of wireless modem, satellite wireless technology or Bluetooth, making the Magnus the quintessential rugged mobile computing platform.
# Model RNM101

## Magnus Rugged Notebook

### Processor
- Intel® Core™ 2 Duo U7600 (1.2 GHz) Ultra Low Voltage (ULV) Processor
- Intel® Dynamic Smart Cache
- Intel® Dynamic Bus Parking
- Intel® Dynamic Power Coordination
- Intel® Enhanced Deeper Sleep with Dynamic Cache Sizing
- 533 MHz Front Side Bus (FSB), 2 MB L2 Cache

### Chipset
- Intel® 945GMS Express Chipset
- Intel® 82945 GMS (ICH7-M) BGA
- Intel® 82801GMB (ICH7-M) BGA

### BIOS
- 1 MB Flash EEPROM

### System Memory
- One SO-DIMM Socket supporting DDR2 SDRAM
- 512 MB, 1 GB or 2 GB SO-DIMMs
- Maximum Memory Expansion of 2 GB

### Power Management
- Full Feature ACPI 2.0 Power Management
- Supports Stand-by, Suspend-to-Disk, Suspend-to-RAM

### I/O Ports
- One Serial Port
- Two USB 2.0 Ports
- One External VGA
- One SD Card Reader
- One DC in
- One DC in
- Two Type II or One Type III

### Modem & LAN
- Integrated 56 K Baud ITU V.92 Modem Module w/ RJ-11 Port
- Integrated 10/100/1000 Base-T Ethernet Controller w/ RJ-45 Port

### Wireless Communication
- Integrated Intel® PRO Wireless 3945ABG 812.11a/b/g
- Bluetooth(V2.0+EDR Class 2)
- EV-DD/GSM/GPRS/EDGE/UMTS/WCDMA/HSDPA (Optional)

### Hard Disk Drive
- Shock Mount 9.5 mm 2.5" Hard Disk Drive
- 120 GB, 160 GB or 250 GB HDD Serial ATA Support

### Video Controller
- Intel® Graphics Media Accelerator 950
- Dynamic Video Memory Technology (DVMT) up to 128 MB

### Sound System
- AC ‘97 Audio CODEC with Built-in Stereo Speakers
- Built-in Headphone-out and Microphone Ports

### Memory Card Reader
- SD Card Reader

### Security Features
- Kensington® Lock Ready
- Trusted Platform Module (TPM) 1.2

### Camera
- 1.3 MP CMOS Digital (200° Reversible) Camera

### Display Screen
- 10.4" XGA with Touch Screen, 1024 x 768
- 12.1" WXGA with Touch Screen, 1280 X 800 (Optional)
- 10.4" or 12.1" Sunlight Readable Solution with Digitizer (Optional)
- 10.4" or 12.1" Sunlight Readable Solution with Touch Screen (Optional)

### Battery
- Primary Battery Smart Li-Ion Battery (5200 mAh) 11.1 V
- Battery Life of 6 Hrs
- Optional Li-Ion Smart Battery (7800 mAh)
- Battery Life of X Hrs

### Dimensions (W x D x H) & Weight
- 10.4": 285 x 222 x 49 mm (11.2 x 8.7 x 1.9), 2.2kg (4.9lbs)
- 12.1": 311 x 222 x 49 mm (13 x 8.7 x 1.9), 2.45kg (5.4lbs)

### Keyboard & Pointing Device
- Shiver-proof and Dust-proof and Windows 88 Key Full Size Keyboard, 2.3 mm Travel
- Weather-proof Rubber Keyboard (Optional)
- LED Back-light Rubber Keyboard (Optional)
- Touchpad Pointing Device with Enhanced Pressure Sensitive Touchpad & 2 Click Buttons
- Touchscreen Pen (Optional)

### Standard Accessories
- 90W/100-240V Auto-Switching AC Adapter (50/60Hz)

### Regulatory, Product Certifications, & Standards
- Temperature: MIL-STD-810F / IEC 68-2-1, 2, 14, Method 501.4, 502.4
- 0˚ to 55˚C (32˚ to 131˚F) (Standard Operating)
- -20˚ to 55˚C (-4˚ to 131˚F) (Optional)
- -40˚ to 70˚C (-40˚ to 158˚F) (Non-operating)
- 45% to 95% Relative Humidity, Non-condensing
- Altitude: MIL-STD-810F / IEC 68-2-13, Method 500.4
- 15,000 ft (Operating), 40,000 ft (Non-operating)
- 2,000 ft/min Altitude Change Rate
- Vibration: MIL-STD-810F / IEC 68-2-6, Method 514.5
- 3 ft Height Free Drop
- Enclosure: IEC 529, NEMA, MIL-STD-810F, Method 506.4, 510.4, IP54
- ESD: IEC 1000-4-2
- Safety: Underwriter Laboratories 60950, 3rd Edition
- Other: FCC Class B, CUL, TUV, CB, CE, CCC, WHQL, BSI, e-Mark
- Electromagnetic: MIL-STD-461E (Optional)

### Docking Station (Optional)
- Vehicle Docking Board: Two Serial, One BNC S-Video, One POGO, One Parallel, Two USB, One Microphone, One Line-out, One Ignition Sensor, and One DC-in

### Options
- 12-32 VDC 90W Car Adapter
- Vehicle Mount
- Smart Card Reader
- Carrying Bag
- Optical Drive (USB)
- Docking RF Connector

---

**180° Rotatable Screen**