

# MAGNUS



## Key Features

- 12.1" XGA or 14.1" XGA TFT LCD Screen
- High Brightness or Touch Screen LCD (Optional)
- Intel® 945GM Chipset
- Intel® GMA 950 Graphics
- Intel® Core™ Duo L2400 Low Voltage Processor
- Maximum 2 GB of DDR2 SDRAM
- Shock-mounted Removable HDD
- Vibration, Drop and Shock Resistant
- Weather-Proof Fanless Construction
- Expansive Wired or Wireless Connectivity
- Magnesium Casing
- MIL-STD-810F Standard
- ACPI and PC '01 Compliant
- FCC DoC, UL Listed, EPA Energy Star Compliant

## Magnus Rugged Notebook

The Magnus RNM790 Series Notebook is the latest ultra-rugged model offered by NCS, designed and built to survive the harshest environments. Ever reliable and efficient, the Magnus meets not only the MIL-STD-810F and IP54 Standards, but also satisfies critical EMI requirements. Magnus is built around a Magnesium alloy shell that is impermeable to dust and water spillage and can even withstand an accidental drop (up to three vertical feet). Powered by the Intel® Core™ Duo L2400 Low Voltage Processor, Magnus easily delivers optimized power efficient computing and breakthrough dual-core performance with amazingly low power consumption. In addition, each Magnus is equipped with a 12.1" XGA or 14.1" XGA LCD screen for office or field work, including an upgradeable Sunlight Readable or Touch Screen LCD option. The true appeal of Magnus however, lies in its extreme versatility and expandability, offering multi-bays for maximum flexibility and customized applications. Where weather, environment and temperature demand the highest level of performance, the Magnus RNM790 Series is built to engage and perform no matter where you go.



# Model RNM790

# Magnus Rugged Notebook

## Processor

Intel® Core™ Duo L2400 Low Voltage 1.66 GHz Processor  
667 MHz Front Side Bus (FSB)  
2 MB L2 Cache

## Chipset

Intel® 945 GME Chipset + ICH7-M

## BIOS

512 KB Flash EPROM

## System Memory

Two 200-pin SO-DIMM Socket supporting DDR2 SDRAM (667 MHz)  
512 MB DDR2 Standard SO-DIMM  
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 Parallel Port, One Serial Port  
Two USB 2.0 Ports  
One External VGA  
One 1394B Port  
One IrDA  
One Docking Port  
One Mic-In  
One Headphone Out  
One RJ-11 Modem Port  
One RJ-45 Lan Port

## Modem & LAN

56 K Baud ITU V.92 Modem w/ RJ-11 Port  
10/100/1000 base-T Ethernet Controller w/ RJ-45 Port

## Wireless Communication

Intel® PRO/Wireless 3945 a/b/g  
GPS with External Antennae (Optional)  
Bluetooth v2.0+EDR Class 2 (Optional)  
EV-DO/GSM/GPRS/EDGE/UMTS/WCDMA/HSDPA (Optional)

## Hard Disk Drive

SATA 80 GB expandable to 160 GB  
Ultra DMA/100/S.M.A.R.T. Support

## Optical Bay

DVD/CD-RW Combo Interchangeable w/ FDD, Dual Layer DVD+/-RW, or 2nd Battery

## PCMCIA

PCMCIA One Removeable Type III or Two Type II

## Video Controller

Integrated Intel® GMA 950 Chipset  
Dynamic Video Memory Technology (DVMT) up to 192 MB  
Dual View Function/LCD/CRT Simultaneous Display Capability

## Sound System

AC '97 Audio CODEC with Built-in Stereo Speakers  
Built-in Headphone-out and Microphone Ports

## Security Features

Kensington® Lock Ready  
TPM 1.2

## Dimensions & Weight

12.1": 332.2 x 267 x 85.4 mm (13.1" x 10.5" x 3.4"), 5.8 kg (12.6 lbs)  
14.1": 332.2 x 279 x 85.4 mm (13.1" x 11.0" x 3.4"), 5.9 kg (13.0 lbs)

## Display Screen

TS12: 12.1" XGA Active Matrix Color TFT, 1024 x 768  
TT12: 12.1" XGA Touch Screen LCD  
TH12: 12.1" XGA Sunlight Readable LCD  
TX12: 12.1" XGA Touch Screen and Sunlight Readable LCD  
TS05: 14.1" XGA Active Matrix Color TFT, 1024 x 768  
TH05: 14.1" XGA Sunlight Readable LCD

## Battery

Primary Battery--Smart Li-ION Battery (10400 mAh)  
Battery Life of 3.5 Hrs, Charging Time 4.5 Hrs (System On) or 3 Hrs (System off)  
Optional Media Bay Secondary Battery (5200 mAh)  
Additional Battery Life of 3 - 3.5 Hrs  
Optional X-Bay Third Battery (5200 mAh)  
Additional Battery Life of 3 - 3.5 Hrs

## Keyboard & Pointing Device

Shower-proof and Dust-proof Windows 87 Key Full Size Keyboard, 2.3 mm Travel  
LED Back-light Rubber Keyboard (Optional)  
Touchpad Pointing Device with Two Click Buttons

## Standard Accessories

90W/19V; Input: 100~240V AC, 50/60Hz Universal

## 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)  
Humidity: MIL-STD-810F / IEC 68-2-30, Method 507  
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  
Shock: MIL-STD-810F / IEC 68-2-27, Method 516.5  
15g, 11ms, Half Sine Wave (Operating)  
50g, 11ms, Half Sine Wave (Non-operating)  
Vibration: MIL-STD-810F / IEC 68-2-6, Method 514.5  
Sinusoidal Wave Vibration  
10~55Hz/0.075mm, 55~500Hz/1.0g (Operating)  
10~55Hz/0.15mm, 55~500Hz/2.0g (Non-operating)  
MIL-STD-810F, Method 514.5  
Highway Truck Vibration Exposure (Random)  
Drop: MIL-STD-810F / IEC 68-2-32, Method 516.5  
3 ft Height Free Drop  
Enclosure: IP54  
EMI/RFI: FCC Class B  
Safety: Underwriter Laboratories 60950, 3rd Edition  
Other: CE, CCC, TUV & CUL  
Electromagnetic: MIL-STD-461E (Optional)  
Explosive: CSA Class 2.1 (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  
Office Docking Board: Two USB, Two Serial, One Microphone-in, One Parallel, and One Line-out

## Options

90W Car Adapter  
HDD Heater for -20°C Low Temperature  
Port Replicator  
Smart Card Reader  
Fingerprint Scanner

SPEC-RNM790-01-100307

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