

MAGNUS



Key Features

- 14.1" XGA or 15.1" SXGA TFT LCD Screen
- High Brightness or Touch Screen LCD (Optional)
- Intel® 945 GMS Chipset
- Intel® GMA 950 Graphics
- Intel® Core™ 2 Duo L7400 Low Voltage Processor
- 1.50 GHz Dual Core CPU 667 MHz (FSB)
- 4 MB L2 Cache
- Maximum 4 GB of DDR 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
- ATEX II3G/ UL1604 Compliant
- FCC DoC, UL Listed, EPA Energy Star Compliant

Magnus Rugged Notebook

The sleekly rugged, 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). The Magnus RNM231 utilizes the Intel® Core™ 2 Duo L7400 Low Voltage Processor with 4 MB L2 cache. Each Magnus is equipped with a 14.1" XGA or 15.1" SXGA LCD screen for office or field work, including an upgradeable Sunlight Readable or Touch Screen LCD option. Motorized support comes in the form of an optional vehicle docking station, housing an expansive array of ports and connectors. Office-wise, there are two docking options via a port replicator or office docking station. 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 Intel's Centrino® Mobile Technology, satellite wireless technology or Bluetooth, making the Magnus the quintessential rugged mobile computing platform.



Model RNM231

Magnus Rugged Notebook

Processor

Intel® Core™ 2 Duo L7400 Low Voltage 1.50 GHz Processor
667 MHz Front Side Bus (FSB)
4 MB L2 Cache

Chipset

Intel® 945 GMS Chipset

BIOS

512 KB Flash EPROM

System Memory

Two 200-pin SO-DIMM Socket supporting DDR2 SDRAM (533 or 667 MHz)
1 GB DDR2 Standard SO-DIMM
Maximum Memory Expansion of 4 GB

Power Management

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

Wireless Communication

Intel® PRO/Wireless 3945 a/b/g
GPS With Antenna (Optional)
Bluetooth v2.0 Class 1 (Optional)
CDMA/CDMA2000 1x/CDMA2000 1x EV-DO GSM/GPRS/
EDGE/UMTS/WCDMA/HSDPA/EVDO

I/O Ports

One Parallel Port, One Serial Port
Two USB 2.0 Ports
One External VGA
One PS/2 Port or 1394B (depending on model)
One IrDA
One Docking Port (POGO)

Modem & LAN

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

Hard Disk Drive

SATA 120 GB Expandable to 250 GB
Ultra DMA/100/S.M.A.R.T. Support
HDD Heater for Extreme Cold Temp. (Optional)

Optical Bay

DVD/CD-RW Combo Drive
Optional Replacement Devices For This Bay:
DVD+/-RW Optical Drive
Secondary Battery (3700mAh)

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
nVidia NB8M-SE (GEFORCE 8400) (Optional)
256 MB DDR SDRAM Video Memory

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
Smart Card Reader (Optional)

Dimensions (W x D x H) & Weight

14: 328 x 286 x 46 mm / 12.9 x 10.7 x 1.81 in; Under 4.20 Kg / 9.25 lbs
15: 338 x 286 x 46 mm / 13.3 x 11.25 x 1.81 in; Under 4.40 Kg / 9.7 lbs

Display Screen

TS05: 14.1" XGA Active Matrix Color TFT, 1024 x 768
TT05: 14.1" XGA Touch Screen LCD
TH05: 14.1" XGA Sunlight Readable LCD
TX05: 14.1" XGA Touch Screen and Sunlight Readable LCD
TS09: 15.1" SXGA Active Matrix Color TFT, 1400 x 1050
TT09: 15.1" SXGA Touch Screen LCD
TH09: 15.1" SXGA Sunlight Readable LCD
TX09: 15.1" SXGA Touch Screen and Sunlight Readable LCD

Battery

Primary Battery: 9-Cell Smart Li-Ion Battery (7800mAh)
Battery Life of 4 - 5.5 Hrs, Charging Time 4 Hrs (System On) or 2.5 Hrs (System off)

Keyboard & Pointing Device

Shower-proof and Dust-proof Windows 88 Key Full Size Keyboard, 2.3 mm Travel
LED Back-light Rubber Keyboard (Optional)
Touchpad Pointing Device with Two Click Buttons
Pressure Sensing Glove Touchpad (Optional)

Standard Accessories

90W/19V Auto-Switching AC Adapter

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, CB, BSMI, E-Mark
Electromagnetic: MIL-STD-461E (Optional)
Explosive: CSA Class 2.1 (Optional)
Salt-Fog: ASTM B117 and ISO 9227
Additional Industrial Certification: ATEX II3G/ UL1604

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

SPEC-RNM231-02-062608

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