



- Rugged 2U Aero High Performance Computing Platform
- 2.66 GHz Intel Core2 Quad Processor
- 4GB DDR2 RAM
- 512MB PCIe Graphics (Nvidia 8800GT Chipset)
- 2x 500GB SATA Hard Drives Installed
- 2x Realtek RTL-8111B PCIe Gigabit Ethernet Controllers
- 12x USB 2.0/1.1 Ports
- RAID 0, RAID 1, RAID 0+1, RAID 5 (SATA ports 0/1/2/3 only)

Specifications

PROCESSOR

- LGA 775 socket for:
 - Intel® Core™2 Quad / Intel® Core™2 Duo
 - Intel® Wolfdale 45nm processors
- Supports Intel Enhanced Memory 64 Technology (EMT64T)
- Supports Enhanced Intel SpeedStep Technology (EIST)
- 1333*/1066/800MHz FSB
- System is configured with a 2.66GHz Core2Quad processor
- *Available on CPUs that support 1333MHz FSB

CHIPSET

- Intel® chipset
- Intel® Q35 Express chipset
- Intel® ICH9R I/O Controller Hub

SYSTEM MEMORY

- Four 240-pin DDR2 DIMM sockets
- Supports dual channel (128-bit wide) memory interface
- Supports 667MHz and 800MHz DDR2 SDRAM
- Supports maximum of 8GB system memory using 512Mbit or 1Gbit technology for x8 and x16 devices
- System is configured with 4GB RAM
- *ECC DDR2 DIMMs are not supported

EXPANSION SLOTS

- 2 full-height half-length PCI slots available via riser card
- 1 PCIe slot used for graphics card

ONBOARD GRAPHICS FEATURES

- Integrated Intel GMA3100
- Up to 384MB maximum video memory
- 2048x1536 at 75 Hz maximum resolution

ONBOARD AUDIO FEATURES

- Realtek ALC862 High Definition audio CODEC
- Six channel DAC supports 16/20/24-bit PCM format for 5.1 channel audio solution
- All DAC support independent 44.1k/48k/96kHz sample rate
- All ADC support independent 44.1k/48k/96kHz sample rate
- Supports 44.1k/48k/96kHz S/PDIF output

ONBOARD LAN FEATURES

- One Realtek RTL8111B PCI Express Gigabit controller
- Supports 10Mbps, 100Mbps and 1Gbps data transmission
- IEEE 802.3 (10/100Mbps) and IEEE 802.3ab (1Gbps) compliant

SERIAL ATA INTERFACE

- Supports 6 SATA (Serial ATA) interfaces which are compliant with SATA 1.0 specification
- SATA speed up to 3Gb/s
- RAID 0, RAID 1, RAID 0+1 and RAID 5 (SATA ports 1/2/3/4 only)
- System is supplied with 2x 500GB SATA Hard Drives installed in a RAID-1 configuration

IDE INTERFACE

- JMicron JMB368 PCI Express to PATA host controller
- Supports up to 2 UltraDMA 33/66/100Mbps IDE devices

REAR PANEL I/O PORTS

- 1 mini-DIN-6 PS/2 mouse port
- 1 mini-DIN-6 PS/2 keyboard port
- 1 DB-25 parallel port
- 1 DB-9 serial port
- 1 DB-15 VGA port
- 1 RJ45 LAN port
- 4 USB 2.0/1.1 ports
- 3 audio jacks for line-in, line-out and mic-in

I/O CONNECTORS

- 2 connectors for 4 additional external USB 2.0/1.1 ports
- 1 connector for external serial port
- 1 DIO connector
- 1 front audio connector for line-out and mic-in jacks
- 1 CD-in internal audio connector
- 1 S/PDIF-out connector
- 1 connector for IrDA interface
- 6 Serial ATA connectors
- 1 40-pin IDE connector
- 1 floppy connector
- 1 24-pin ATX power connector
- 1 4-pin 12V power connector
- 1 chassis open connector
- 1 front panel connector
- 3 fan connectors

BIOS

- Award BIOS
- 8Mbit flash memory

ENERGY EFFICIENT DESIGN

- Supports ACPI specification and OS Directed Power Management
- Supports ACPI STR (Suspend to RAM) function
- Wake-On-Events include:
 - Wake-On-PS/2 Keyboard/Mouse
 - Wake-On-USB Keyboard/Mouse
 - Wake-On-LAN and Wake-On-Ring
 - RTC timer to power-on the system
- System power management supported
- Microsoft®/Intel® APM 1.2 compliant
- Soft Power supported - ACPI v1.0a specification
- AC power failure recovery

DAMAGE FREE INTELLIGENCE

- Monitors CPU/system/AUX temperature and overheat alarm
- Monitors CPU(V)/5V/1.5V/dimm(V)/12V/VBAT(V)/3.3V/V3.3sb(V) voltages and failure alarm
- Monitors CPU/system/2nd fan speed and failure alarm
- Read back capability that displays temperature, voltage and fan speed
- Watchdog timer function

TEMPERATURE

- 0oC to 60oC

HUMIDITY

- 10% to 90%

PCB

- 4 layers, microATX form factor
- 24.4cm (9.6") x 24.4cm (9.6")

REAR PANEL I/O PORTS

- PS/2 Mouse
- PS/2 K/B
- Parallel
- Line-in
- Line-out
- Mic-in
- COM 1 VGA USB 0 USB 2-3 LAN USB 1

SAFETY

- UL, cUL, FCC Class B, CE

Ordering Information

AERO2U-MX-01

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2U Aero Intel Core2Quad 2.66GHz 4GB RAM 512KB PCIe Graphics 500GB RAID-1 2xPCI

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