

GEMINI



Key Features

- Thermally Advantaged MidTower Chassis
- nVidia® nForce™ 650i SLI™ Chipset
- Intel® Core™ 2 Extreme Processor (Quad-Core)
- Intel® Core™ 2 Quad Processor (Quad Core)
- Intel® Core™ 2 Extreme Processor (Dual-Core)
- Intel® Core™ 2 Duo Processor (Dual-Core)
- Dual Channel 8 GB DDR2 SDRAM
- Two PCI Express x16
- Integrated 6-Channel (5.1) High Definition Audio
- Gigabit LAN Connectivity
- Eight High Speed USB 2.0 Ports
- IDE/Serial ATA 3GB/s with support for RAID
- nVidia® MediaShield™ Storage Technology
- FCC DoC, UL Listed, EPA Energy Star Compliant
- DMI, ACPI, PC '01 Compliant

Gemini Series Workstation

Whether battling virtual opponents online or sitting in the midst of a gaming arena competition megaplex, the Gemini Series CM4-A324 Workstation is built especially for the Hard Core Gamer or Enthusiast in mind. Other performance hungry missions such as video content creation or computer aided design will also benefit from the Gemini's platform characteristics. Its nVidia® nForce™ 650i SLI Chipset utilizes the latest in processor technology, namely Intel's Core™ microarchitecture, to maximize the Intel® Core™ 2 Extreme Processor's four processor cores on a single silicon. Beyond the dynamic processor power is the equally impressive dual channel DD2 SDRAM throughput, tapping in at up to 10 GB/sec transfer rate. When combined with two top-of-line PCI Express x16 graphics accelerators in SLI mode, the Gemini absolutely radiates visual acuity in glorifying detail. Other on-board features include Gigabit LAN, Serial ATA with RAID support, and nVidia's MediaShield™ Storage Technology. With all these features together in a singular platform, this Gemini Series Workstation is a Gamer's delight and a Content Creationist's best asset.



Model CM4-A324

Gemini Series Workstation

Processor

FC-LGA4 Package (775-land Package)
Intel® Core™ Microarchitecture
533 MHz, 800 MHz, 1066 MHz, or 1333 MHz Front Side Bus (FSB)
Intel® Core™ 2 Extreme Processor QX6700 (Quad-Core)
2.66 GHz (1066 MHz FSB)
Intel® Core™ 2 Quad Processor Q6600 (Quad-Core)
2.4 GHz (1066 MHz FSB)
Intel® Core™ 2 Extreme Processor X6800 (Dual-Core)
2.93 GHz (1066 MHz FSB)
Intel® Core™ 2 Duo Processors E6000 Sequence (Dual-Core)
1.86 GHz to 2.66 GHz (1066 MHz FSB)

Chipset

nVidia® nForce™ 650i SLI™ Chipset
nVidia® nForce™ 430i Media and Communications Processor (MCP)
PCI 2.2 Compliant & Concurrent PCI for Real-Time I/O

BIOS

4 Mbit Flash EEPROM
Award® PCI BIOS - DMI 2.0, WfM 2.0, Plug & Play,
Award® JumperFree Trend® ChipAway Virus
Automatic Hard Disk Detection and Build-in Password Protection
Supports ZIP Drives and IDE CD-ROM
Enhanced Advanced Configuration and Power Interface (ACPI) v1.0b
PC '01 Compliant

Cache

Intel® Core™ 2 Extreme Processor QX6700 & Core™ 2 Quad Processor Q6600
4 x 32 KB Instruction and 4 x 32 KB Write-back Data L1 Cache
2 x 4 MB On-die Full Speed L2 Cache (Shared) (Advanced Smart Cache)
Intel® Core™ 2 Extreme Processor X6800 & Core™ 2 Duo Processor E6000
Sequence
2 x 32 KB Instruction and 2 x 32 KB Write-back Data L1 Cache
2 x (2 MB or 4 MB) On-die Full Speed L2 Cache (Shared) (Advanced Smart Cache)

System Memory

Four 240-pin DIMM Sockets supporting non-ECC 800 MHz, 667 MHz, and 533 MHz
DDR2 SDRAM Memory
Dual Channel Memory Architecture
256 MB, 512 MB, 1 GB, or 2 GB DIMMs
Maximum Memory capacity of 8 GB

System Management

Asus Q-Fan Cooling Technology
Auto throttling of CPU fan in suspend mode to save power
Auto slow-down of CPU when overheating is detected
Power supply voltage monitoring and alert
System resources: Memory & hard disk drive utilization monitoring & alert
Wake-On-LAN and Wake-On-Ring support

Integrated PCI IDE

One Independent Channel - PCI Bus Master IDE Ports
Supports Two IDE and EIDE Devices
Supports PIO Modes 3 & 4 (17 MB/sec maximum)
Supports Bus Master 8237-style DMA Mode (16 MB/sec maximum)
Supports Bus Master Ultra DMA/33/66/100/133 (133 MB/sec maximum)
ATAPI CD-ROM Supported

Integrated Serial ATA/RAID

Four Independent Serial ATA Channels
Supports Four Serial ATA Devices
Supports 3 GB/sec (SATA-IO Specification)
One External Serial ATA Channel via Jmicron JMB 360 SATA Controller
Supports 3 GB/sec (SATA-On-the-Go)
nVidia® MediaShield™ Storage Technology via nVidia® nForce™ 430i MCP
Supports RAID 0, RAID 1, RAID 0 + 1, RAID 5 or JBOD

Integrated Audio

RealTEK ALC883 6-Channel (5.1) Audio CODEC
Front Panel Connectors: Line-out/Retasking Jack E and Microphone-in/Retasking Jack A
Back Panel Connectors: S/PDIF Coaxial Audio Out Optical, Line-in/Retasking Jack C, Line-out/Retasking Jack D, and Microphone-in/Retasking Jack B

Integrated Gigabit

Marvell® 88E1116 PHY Single-chip Gigabit LOM Ethernet Controller
Integrated 10/100/1000 Transceiver
One RJ-45 Port with Integrated LEDs

Integrated Super I/O

Floppy Controller (1.44 MB drive type)
One PS/2 Keyboard Port and One PS/2 Mouse Port
One Serial Port via Internal Header
Two 1394a (Firewire®) Ports
One Rear and One via Internal Header
One ECP/EPP Parallel Port
Eight USB 2.0 Ports
Two Dual Stack Rear
One Dual Front Panel Connector
Four via Internal Headers
One External Serial ATA Connector

Expansion Slots

Two PCI Express x16 Slots
Single Graphics Mode (x16 Electrical)
Dual Graphics SLI Mode (x8 Electrical)
One PCI Express x1
Two PCI Conventional

Bus Architecture

PCI Express x16, PCI Express x1, and 32-bit PCI

Housing Configuration

Thermally Advantaged MidTower Chassis w/ CAG 1.1

Dimensions (d) x (w) x (h) mm/inch

465 x 198 x 425 / 18.3 x 7.8 x 16.7

Drive Bays

5.25 inch External	4
3.5 inch External	1
3.5 inch Internal	4

Power Supply Features

Input Voltage	100-120 VAC/200-240 VAC
Input Frequency	50/60 Hz
Input Currents	10 A / 8 A
Device Power Connectors	4 for 5.25", 2 Serial ATA, and 1 for 3.5" Devices
Green PC	EEF Energy Efficient PC
Maximum Output	460 Watts
Form Factor	ATX
Soft Power Switch	DC On/Off via TTL Signal

Environmental

Operating Temperature	0° to 35° C / 32° to 95° F
Storage Temperature	-40° to 70° C / -42° to 158° F
Relative Humidity	92% RH @ 36° C / 97° F

Regulatory & Product Certifications

EMI/RFI	FCC Declaration of Conformity (DoC)
Safety	Underwriter Laboratories (UL) 60950, 3rd Edition
EPA	Energy Star Compliant

Options

80 mm Cooling Fan	2
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