

# GEMINI



## Key Features

- Thermally Advantaged MidTower Chassis w/ 460 Watt Power Supply
- Intel® E7525 Chipset
- Intel® Xeon™ Processors w/ EM64T, Dual Processor
- 2.8 GHz to 3.8 GHz CPU
- 800 MHz Front Side Bus (FSB)
- 12 GB ECC DDR2 400 MHz SDRAM Memory
- Intel® x4 Single Device Data Correction (x4 SDDC)
- Integrated ATI Rage XL Graphics with 8 MB Memory
- PCI Express x16 Slot
- 2 Channel Serial ATA and Integrated RAID
- 4 Channel Serial ATA II and Integrated RAID
- Two BroadCom® Gigabit Controllers
- Three Independent PCI Buses
- Zero Channel RAID Support (Optional)
- Intelligent Platform Management Interface 2.0
- FCC DoC, UL Listed, EPA Energy Star Compliant

## Gemini Series Workstation

Ready for an affordable high-performance dual-process workstation for departmental and e-business structure applications? Specifically designed for desktop computing environments, the Gemini Model CM4-S267 brings to an end the separation between performance and affordability. Powered by the most advanced Intel® Xeon™ Processors with Intel® Extended Memory 64 Technology, coupled with an 800 MHz system bus and 2 MB of L2 Cache, the Gemini delivers an affordable superior performing platform. With its immense memory expansion capability, up to 12 GB of dual (two-way) interleaved ECC DDR2 SDRAM support, the Gemini Series is the BEST value scalable entry level dual processor workstation available in today's marketplace. Its 460W power supply is designed to accommodate the full expansion potential of this thermally advantaged Chassis, which is capable of holding up to eight high-capacity storage devices, as well as support for next generation SATA II devices. Two onboard BroadCom Gigabit controllers virtually guarantee the highest connectivity throughput across the network. You no longer have to forego affordability at the expense of performance - you can now have both with the Gemini Series Workstation.



# Model CM4-S267

# Gemini Series Workstation

## Chipset

Intel® E7525 Chipset  
Intel® E7525 Memory Controller Hub (MCH)  
Intel® 80332 I/O Processor with Intel® XScale Technology (IOP332)  
Intel® 6300ESB I/O Controller Hub (ICH)  
Intel® 6700 PXH PCI-X Controller Hub (PXH)  
Intel® 82802AB Firmware Hub (FWH)  
PCI Local Bus Specification Revision 2.3 and PCI-X 2.2 Compliant

## Processor

Intel® Xeon® Processor, One or Two Processor Ready  
64-bit Intel® Xeon™ Processor, One or Two Processor Ready  
Intel® Extended Memory 64 Technology (Intel® EM64T)  
Intel® Netburst® Micro-architecture  
Intel® Hyper Threading Technology  
Demand Based Switching (DBS) w/ Enhanced Intel® Speedstep® Technology  
604-pin FC-mPGA4 Socket  
800 MHz Front Side Bus (FSB)  
2.8 GHz to 3.8 GHz CPUs

## BIOS

8 Mbit Flash EEPROM w/ Phoenix® BIOS  
Multi Boot BBS (BIOS Boot Specification) 1.4 Compliant  
IDE Drive Autoconfigure, SIMBIOS 2.3, PnP  
Built-in Password and Hardware BIOS Virus Protection  
Supports IDE CD-ROM or SCSI Bootup  
Enhanced Advanced Configuration and Power Interface (ACPI)

## Cache

12k pop and 16 KB Data, Level 1 Execution Trace Cache  
1 MB or 2 MB Advanced Transfer Cache (On-die, full speed Level 2 Cache) w/  
8-way Associativity & Error Correcting Code (ECC)

## System Memory

Intel® x4 Single Device Data Correction (x4 SDDC) for Memory Fault Tolerance  
Six 240-pin (Two-way Interleaved) DIMM Sockets  
Supporting 12 GB Buffered (Registered) ECC DDR2 400 MHz SDRAM  
256 MB, 512 MB, 1 GB, and 2 GB DIMMs

## Workstation/Server Management

ACPI/ACPM Power Management  
Main Switch Override Mechanism  
CPU Core 3-Phase-switching  
Power Supply Voltage Monitoring and Alert  
Chassis Intrusion Alarm and Logging  
Fan Status/Temperature Monitoring and Alert  
System Resources: Memory & Hard Disk Drive Utilization Monitoring & Alert  
IPMI (Intelligent Platform Management Interface 2.0 (Optional))

## Integrated Super I/O

One Floppy Controller, 1.44 MB, 2.88 MB  
Two PS/2 Ports: Keyboard and Mouse  
Four USB 2.0 Ports: Two Ports Rear Stacked and Two via Internal Header  
Two Fast UART 16550 Serial Ports  
One ECP/EPP Parallel Port via Internal Header

## Integrated PCI IDE

Two Enhanced IDE Channels Supporting Four IDE Devices  
Supports Bus Master UDMA Mode 5, PIO Mode 4 & ATA/100 (100 MB/sec maximum)  
ATAPI CD-ROM Supported

## Integrated Graphics Adapter

ATI® Rage® XL SVGA PCI Video Controller with 8 MB Video Memory

## Integrated Serial ATA/RAID

Intel® 6300ESB I/O Controller Hub (ICH5-R) SATA Controller w/ Integrated RAID  
Two Independent Channels Supporting Two Serial ATA Devices  
Supports First Party DMA (150 MB/sec maximum)  
RAID 0, 1, and JBOD  
Adaptec® AIC-8130 (Hercules 2 4-port) SATA RAID Controller  
Marvell® 88SX6041 Serial ATA II PCI-X Host Controller  
Eight Independent Channels Supporting Four Serial ATA Devices  
Supports Serial ATA II (300 MB/sec maximum)  
Native Command Queuing, Serial ATA I/ATA-6 Tag Command Queuing, and eSATA  
RAID 0, 1, and JBOD

## Integrated Gigabit LAN Interface

Intel® Server Network Connection and Supporting Alert-on-LAN:  
Two Broadcom® Single Port Gigabit via Broadcom® BCM5721 Controller for  
10/100/1000 Ethernet LAN Supporting Full and Half Duplex Operation

## Zero Channel RAID

Zero-Channel RAID via Adaptec® 2020SA ZCR Card (Optional)  
RAID 0, 1, 0/1, 5, 0/5, JBOD  
Zero-Channel RAID via Supermicro AOC-LPZCR1 or AOC-LPZCR2 ZCR Card (Optional)  
RAID 5, 10

## Expansion Slots

Three Independent PCI Buses:  
Segment A: Two PCI Conventional 32-bit/33 MHz  
Segment B: One PCI-Express x16  
Segment C: Two PCI-X 64-bit/66 MHz

## Bus Architecture

PCI Express x16, 32-bit PCI, and 64-bit/66 MHz PCI-X

## 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 / 6 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	Intel® ATX
Soft Power Switch	DC On/Off via TTL Signal

## Environmental

Operating Temperature:	+10° to +35° C / +50° to 95° F
Storage Temperature:	-40° to +70° C / -42° to +158° F
Relative Humidity:	8 % to 90% @ +35° C / +95° F

## Regulatory & Product Certifications

EMI/RFI:	FCC Declaration of Conformity (DoC) CUL Listed, TUV Certified, Europe/CE Mark, EN 60950/IEC60950-Compliant
Safety:	Underwriter Laboratories 60950, 3rd Edition

## Options

80 mm Cooling Fan	2
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