

GEMINI



Key Features

- Thermally Advantaged MidTower Chassis
- 350 Watt Power Supply
- nVidia GeForce® 6150 + nForce 430 Chipset
- AMD Athlon™ 64 Processor
- AMD Athlon™ 64 X2 Processor
- 1600 MHz to 2000 MHz Hyper Transport Bus
- AMD® Cool 'n' Quiet Technology
- Maximum 4 GB DDR400 SDRAM
- Front Panel USB 2.0 Ports and Audio Connections
- Integrated Surround Sound 6-channel (5.1) Audio
- Integrated Gigabit Ethernet LAN Connectivity
- Six Hi-Speed USB 2.0 ports
- IDE/Serial ATA with support for RAID
- FCC DoC, UL Listed, EPA Energy Star Compliant
- DMI, ACPI, PC '01 Compliant

Gemini Series Workstation

The Gemini Series Model A263, in a Thermally Advantaged MidTower design, delivers an extremely robust, reliable, and cutting-edge platform. Its nVidia GeForce® 6150 + nForce 430 chipset utilizing DDR400 SDRAM, and coupled with the latest AMD® Athlon™ 64 X2 dual core processors with AMD64 Technology, heightens office productivity by delivering an unparalleled 32-bit and 64-bit performance-to-cost computing capability. On board Q-Fan Cooling Technology and AMD's Cool 'n' Quiet Technology provide for real-time fan cooling and quieter system operation. Some of the leading edge technologies incorporated into the Gemini Series Model A263 includes four Serial ATA channels, a Firewire® port for unparalleled data throughput transfer rate, and up to six USB 2.0 ports. High-end immersing audio comes in the form of an integrated high definition 6-channel audio architecture with SPDIF out for pure surround sound multimedia experience. Network connectivity is provided through the Marvell Alaska integrated single port Gigabit Ethernet LAN. High-end graphics capability is provided by its PCI Express x16 slot. These extraordinary features will assure the Gemini Series' place at the van of any future performance requirements.



Model CM4-A263

Gemini Series Workstation

Processor

AMD® Athlon™ 64 Processor 3000+ to 4000+
AMD® Athlon™ 64 X2 Dual Core Processor 3800+ to 4800+
AMD® Athlon™ 64 FX Processor FX-53 to FX-57
AMD® Athlon™ 64 FX-60 Dual Core Processor
AMD® Sempron™ 2200 to 3400
1600 MHz to 2000 MHz Hyper-Transport Front Side Bus (FSB)
AMD 64 Architecture with Simultaneous 32-bit and 64-bit Computing
939-pin Socket Modules

Chipset

nVidia® GeForce® 6150 GPU Northbridge
nVidia® 430 Media and Communications Processor (MCP) Southbridge
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

AMD® Athlon™ 64, Sempron™, and Athlon™ 64 FX Processors
64KB 2-Way Associative ECC-Protected Level 1 Data Cache
64KB 2-Way Associative Parity-Protected Level 1 Instruction Cache
256 KB, 512 KB, or 1 MB 16-Way Associative ECC-Protected Level 2 Cache
AMD® Athlon™ 64 X2 and Athlon™ 64 FX-60 Dual Core Processors
2 x (64KB 2-Way Associative Parity-Protected Level 1 Instruction Cache)
2 x (2-Way Associative Parity-Protected Level 1 Instruction Cache)
2 x (up to 1MB 16-Way Associative ECC-Protected Level 2 Cache)

System Memory

Four 184-pin Dual Channel DIMM Sockets Supporting ECC or non-ECC DDR400/333 SDRAM Memory
128 MB, 256 MB, 512 MB, and 1 GB DIMMs
Maximum Memory capacity of 4 GB

System Management

AMD Cool and Quiet™ Technology
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

1 Independent Channel - PCI Bus Master IDE Ports
Supports 2 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

nVidia® nForce™ Storage and MediaShield™ Storage Management Technology
4 Independent Channels
Supports 4 SATA Devices
Supports 3 GB/sec (SATA-IO Specification)
Supports RAID 0, RAID 1, RAID 0 + 1, and RAID 5

Integrated Video

Integrated nVidia® GeForce™ 6600 Series Graphics Controller
nVidia® PureVideo™ Technology High Definition Video Processing 1920 x 1440
Dual Video Output: One DVI-D and One VGA
Dynamic Video Memory Technology (DVMT) Supporting up to 128 MB

Integrated Firewire

Two IEEE 1394a Ports: One Backpanel and One Front via Internal Header

Integrated Audio

Analog Devices SoundMAX® AD1986A 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 Digital Audio Out Optical, Surround Left & Right/Retasking Jack F, Line-in/Retasking Jack C, Line-out/Retasking Jack D, and Microphone-in/Retasking Jack B

Integrated Gigabit

Marvell Alaska® 88E1111 Single Port Gigabit Ethernet External PHY

Integrated Super I/O

Floppy Controller for Mode 3 Support (up to 2.88 MB drive type)
One PS/2 Keyboard Port and One PS/2 Mouse Port
One Serial Port via Internal Header
One ECP/EPP Parallel Port
Six USB 2.0 Ports: Two Dual Back and One Dual Front Panel Connectors
One RJ-45 Port
One IEEE 1394 Port

Expansion Slots

Two PCI, One PCI Express x1 and One PCI Express x16

Bus Architecture

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

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	350 Watts
Form Factor	Intel® 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
-------------------	---

NCS Technologies, Inc.

9490 Innovation Drive Voice: (703) 621-1700
Manassas, VA 20110 Toll-Free: 1 (888) RING-NCS
www.ncst.com Fax: (703) 621-1701

