

GEMINI



Key Features

- Thermally Advantaged MiniTower Chassis
- nVidia® Quadro® NVS 210S GPU
- nVidia® nForce™ 430 MCP
- AMD Athlon™ 64 X2 Dual-Core Processor (CSIP)
- 8 GB/sec HyperTransport™ Technology
- Dual Channel DDR2 SDRAM
- AMD Cool 'n' Quiet™ Technology
- nVidia® Unified Stable Image
- Integrated nVidia® nForce™ Gigabit Lan Connectivity
- nVidia® MediaShield™ Storage Technology
- Integrated 6-Channel (5.1) High Definition Audio
- Trusted Platform Module (TPM) v1.2
- Front Panel USB 2.0 Ports and Audio Connections
- 350W 80 PLUS High-Efficiency Power Supply
- FCC DoC, UL Listed, EPA Energy Star Compliant
- DMI, ACPI, PC '01 Compliant

Gemini Series Workstation

The Gemini CK3-A297 combines a newly-redesigned, sleek chassis and outstanding performance for departmental or enterprise desktop computing environments without the premium price. Powered by the most advanced AMD Athlon™ 64 X2 Dual-Core processors, multi-threaded applications and multitasking are a snap. With DDR2 memory of up to 800MHz, Gemini also provides great performance for 3D graphics and other memory demanding applications. Also, the AMD Cool 'n' Quiet!™ Technology monitors system operation and automatically adjusts for a cool and quiet environment. Gemini is designed with security in mind, utilizing the onboard Trusted Platform Module, which is key in preventing malicious cyber attacks, such as data theft or unauthorized access. In addition, nVidia® MediaShield™ Storage Technology adds another layer of protection by preventing data loss and ensuring reliability. In short, Gemini offers valuable capabilities crucial to small and large businesses: a feature-packed system delivering consistent performance, security and connectivity while remaining a commercially sound business infrastructure solution.



Model CK3-A297

Gemini Series Workstation

Processor

AMD Athlon™ 64 X2 Dual-Core Processor 4200+ to 5200+
AMD Athlon™ 64 Processor 3500+ to 3800+
AMD Sempron™ Processor 3400+ to 3800+
AMD Direct Connect Architecture w/ Simultaneous 32-bit & 64-bit Computing
8 GB/sec HyperTransport™ Technology
AMD Commercial Stable Image Platform (CSIP) Processors
AMD Socket AM2 Modules

Chipset

nVidia Quadro® NVS 210S Graphics Processing Unit (GPU)
nVidia nForce™ 430 Media and Communications Processor
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
Enhanced Advanced Configuration and Power Interface (ACPI) v1.0b
PC '01 Compliant

Cache

AMD Sempron™ & Athlon™ 64 Processor
64KB 2-Way Associative ECC-Protected Level 1 Data Cache
64KB 2-Way Associative Parity-Protected Level 1 Instruction Cache
256 KB or 512 KB 16-Way Associative ECC-Protected Level 2 Cache
AMD Athlon™ 64 X2 Dual-Core Processor
2 x 64KB 2-Way Associative ECC-Protected Level 1 Data Cache
2 x 64KB 2-Way Associative Parity-Protected Level 1 Instruction Cache
2 x 1 MB 16-Way Associative ECC-Protected Level 2 Cache

System Memory

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

System Management

AMD Cool and Quiet™ Technology
nVidia® Unified Stable Image
nVidia® ForceWare® Unified Driver Architecture (UDA)
Fan Status/temperature Monitoring and Alert
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
Chassis Intrusion Alarm
System Resources: Memory & Hard Disk Drive Utilization Monitoring & Alert
Wake-On-LAN and Wake-On-Ring support

Integrated PCI IDE

Two Independent IDE Channels via nVidia® nForce™ 430 MCP
Supports 4 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 SATA/RAID

Four Independent Serial ATA Channels
Supports Four Serial ATA Devices
Supports 3 GB/sec Maximum (SATA-IO Specification)
nVidia® MediaShield™ Storage Technology via nVidia® nForce™ 430 MCP
Supports RAID 0, RAID 1, RAID 0+1, RAID 5, or JBOD

Security & Encryption

Trusted Platform Module (TPM) v1.2 (Optional)
Protects Encryption and Signature Keys and Supports Attestation

Integrated Video

nVidia® Quadro® NVS 210S Graphics Processor
nVidia® PureVideo™ Technology
One VGA and One DVI Connector

Integrated Audio

Integrated 6-Channel (5.1) High Definition Audio Subsystem
nVidia® nForce™ 430 MCP
Analog Devices SoundMAX® AD1986A Audio CODEC w/ Universal Jacks™ Functionality
Front Panel Connectors: Line Out/Retasking Jack, and Microphone In/Retasking Jack
Back Panel Connectors: Line In/Retasking Jack, Line Out/Retasking Jack, and Microphone In/Retasking Jack

Integrated Gigabit

nVidia® nForce™ Networking Subsystem via nVidia® nForce™ 430 MCP
nVidia® Gigabit Media Access Control (MAC)
Marvell Yukon Gigabit Ethernet Controller PHY

Integrated Super I/O

Floppy Controller for Mode 3 Support
One PS/2 Keyboard Port and One PS/2 Mouse Port
One ECP/EPP Parallel Port
Eight USB 2.0 Ports
Two Rear Dual Stack, One Front Dual Stack, and Two via Internal Headers (Optional)
One RJ-45 Port

Expansion Slots

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

Bus Architecture

PCI, PCI Express x16, and PCI Express x1

Housing Configuration

Thermally Advantaged MiniTower Chassis w/ CAG 1.1

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

375 x 198 x 370 / 14.7 x 7.8 x 14.8 / 9.5 kg/21 lbs

Drive Bays

5.25 inch External	2
3.5 inch External	1
3.5 inch Internal	2

Power Supply Features

Input Voltage	100-240 VAC
Input Frequency	50/60 Hz
Input Currents	5 A
Device Power Connectors	4 for 5.25", 2 Serial ATA, and 1 for 3.5" Devices
Maximum Output	350 Watts
Form Factor	ATX12V v2.2
Power Factor Correction	Active PFC
Efficiency	> 80% at Normal Input Voltage
Internal Fan	12 cm

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

One 120 mm Rear Cooling Fan
One 92 mm Front Cooling Fan (Optional)

SPEC-CK3A297-02-061207

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