

APOLLO



Apollo Series Workstation

Key Features

- Thermally Advantaged MidTower Chassis
- 250, 300, 350, or 460 Watt Power Supply
- VIA K8T890 Chipset
- AMD® Athlon™ 64 Processor
- 800 MHz Front Side Bus (FSB)
- AMD® Cool 'n' Quiet Technology
- Maximum 4 GB DDR400 SDRAM
- Front Panel USB 2.0 Ports and Audio Connections
- Integrated 8-channel audio
- PCI Express x16 Graphics Interface
- Marvell® 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

The Apollo Series Model CM3-A252, in a Thermally Advantaged MidTower design, delivers an extremely flexible, reliable, and cutting-edge platform. Its VIA K8T890 chipset utilizing next generation DDR400 SDRAM support, coupled with AMD®'s latest Athlon™ 64 800 MHz front side bus processors, with the industry's first x86-64 technology, enhances office productivity by delivering an unparalleled cost-to-performance capability. AMD's 64-bit processor architecture and 1 MB of Level 2 on die cache increases software performance while delivering simultaneous 32-bit and 64-bit computing, truly making the Apollo Series Model CM3-A252 the most robust computing platform around. Other hardware characteristics of its feature set include: PCI Express x16, six USB 2.0 ports, integrated high definition 8-channel audio architecture, and Serial ATA. Network connectivity is provided through Marvell's Yukon® Gigabit Ethernet LAN. These extraordinary features will assure the Apollo Series' place at the vanguard of any future performance requirements.



Model CM3-A252

Apollo Series Workstation

Processor

AMD® Athlon™ 64 Processor 3000 to 4000
AMD® Athlon™ 64 FX Processor FX-53 to FX-55
800 MHz Hyper-Transport Front Side Bus (FSB)
AMD 64 Architecture with simultaneous 32-bit and 64-bit computing
939-pin Socket Modules

Chipset

VIA® K8T890 System Platform Processor (SPP) - North Bridge Chipset
VIA® VT8237R Media and Communications Processor (MCP-T/MCP)- South
Bridge Chipset
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
Build-in password protection
Supports ZIP Drives and IDE CD-ROM
Enhanced Advanced Configuration and Power Interface (ACPI) v1.0b
PC '01 Compliant

Cache

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

System Memory

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

System Management

AMD Cool and Quiet Technology
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 and logging
Keyboard power-on
System resources: Memory & hard disk drive utilization monitoring & alert
Wake-On-LAN and Wake-On-Ring support
Message LED to indicate receipt of data through modem

Integrated PCI IDE

2 Independent Channels - PCI Bus Master IDE Ports
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)
ATAPI CD-ROM Supported

Integrated Firewire

Two IEEE 1394A Ports: One Rear and One Header

Integrated LAN

Marvell® Yukon® 88E8053 PCI Express Gigabit Ethernet Controller

Wireless Communication

Integrated WiFi-g™ Wireless with LAN Antenna (Optional)

Integrated Audio

RealTEK® ALC850 8-Channel Audio CODEC
Back panel connectors: Line-in, SPDIF Optical, SPDIF Coaxial, and Microphone-in
Front panel connectors: Line-out and Microphone-in

Integrated Serial ATA/RAID

2 Independent Channels
Supports 2 SATA Devices
Supports First Party DMA (150 MB/sec maximum)
Supports RAID 0, RAID 1, and JBOD

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 (16550 Fast UART compatible)
One ECP/EPP Parallel Port
Six USB 2.0 Ports
Four Back Panel: Two Dual Stack Connectors
Two Front Panel: One Dual Stack Connector
One RJ-45 Port

Expansion Slots

Three 32-bit PCI, One PCI-E x16, and Two PCI-E x1

Bus Architecture

PCI, PCI Express x16, and PCI Express x1

Housing Configuration

Beige Thermally Advantaged MidTower Chassis with CAG 1.1
Black Thermally Advantaged MidTower Chassis with CAG 1.1

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

428 x 181 x 431 / 16.85 x 7.13 x 17

Drive Bays

5.25 inch external = 3
3.5 inch external = 1
3.5 inch internal (Standard/optional) = 2/0

Power Supply Features

Input voltage	100-120 VAC/200-240 VAC
Input frequency	50/60 Hz
Input currents	10.0/7A
Device power connectors	9 for 5.25" 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 60950, 3rd Edition
EPA: Energy Star Compliant

Options

80 mm Cooling Fan 2

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