

APOLLO



Key Features

- Thermally Advantaged MidTower Chassis
- 250, 300 or 350 Watt Power Supply
- Intel® Pentium® 4 Processors - up to 2.8 GHz
- Intel® Pentium® 4 Processors w/ HT up to 3.06 GHz
- Intel® 875P Chipset
- Intel® NetBurst™ Microarchitecture
- Intel® Hyper-Threading Technology
- Intel® Performance Acceleration Technology (PAT)
- 533 MHz or 800 MHz Front Side Bus (FSB)
- Dual Channel DDR/333/400 SDRAM
- Front Panel USB 2.0 Ports
- Intel® PRO/1000 CT Desktop Gigabit LAN
- Eight Hi-Speed USB 2.0 ports
- IDE/Serial ATA with support for RAID 0
- FCC DoC, UL Listed, EPA Energy Star Compliant
- DMI, ACPI, PC '01 Compliant

Apollo Series Workstation

The Apollo Series Model I189, in a Thermally Advantaged MidTower cabinet design, situated at the forefront of performance based technology and geared toward the enthusiast/multimedia user, delivers an extremely versatile and cutting-edge platform. Its Intel® 875P chipset dual channel memory utilization of up to 4 GB DDR400 SDRAM, coupled with Intel's Pentium® 4 800 MHz frequency processors, delivers limitless office productivity and radical gaming performance. The Apollo's cutting-edge technology includes: Intel® Performance Acceleration Technology for superior performance by reducing memory latencies; Active Monitor and Precision Cooling Technology for quieter cooler system operation; and AGP 8X for mindblowing high-end graphics support. Its other hardware feature set includes: having up to eight USB 2.0 ports, Ultra ATA/100, and unparalleled data throughput with integrated network connectivity provided through the Intel® PRO/1000 CT Desktop Gigabit LAN connection. With the Intel® RAID Technology and two Serial ATA channels, the Apollo Series Model I189 ensures higher speed data transfers and better hard drive performance while providing many years of scalability.



Model CM3-I189

Apollo Series Workstation

Processor

mPGA478-pin Package
Intel® Pentium® 4 Processors
Intel® Pentium® 4 Processors w/ Hyper Threading Technology (HT)
533 MHz or 800 MHz Front Side Bus (FSB)
Intel® NetBurst™ Microarchitecture
Intel® Pentium® 4 Processors 1.5 GHz to 2.8 GHz CPUs @ 533 MHz FSB
Intel® Pentium® 4 Processors w/ HT 3.06 GHz CPU @ 533 MHz FSB
Intel® Pentium® 4 Processors w/ HT 2.4 GHz to 3.0 GHz CPUs @ 800 MHz FSB

Chipset

Intel® 875P Chipset
Intel® 82875P Memory Controller Hub (MCH) with Accelerated Hub Architecture (AHA) Bus
Intel® 82801ER I/O Controller Hub (ICH5-R) with AHA Bus
Intel® 82802AC Firmware Hub (FWH)
PCI 2.2 Compliant & Concurrent PCI for Real-Time I/O

BIOS

8 Mbit Flash EEPROM
Intel®/AMI BIOS - DMI 2.0, WfM 2.0, Plug & Play, SMBIOS, Multi-Lingual support, and Wake-On-LAN
IDE Drive Auto-Configure
Intel® Rapid BIOS Boot
Supports ZIP Drives, Supports IDE CD-ROM or SCSI Bootup
Enhanced Advanced Configuration and Power Interface (ACPI) v1.0b
PC '01 Compliant

Cache

12k µop Level 1 Execution Trace Cache
8 KB Level 1 Data Cache
512 KB On-Die, Full Speed Level 2 Cache (Advanced Transfer Cache)

System Memory

Intel® Performance Acceleration Technology (Intel® PAT)
Four 184-pin Dual Channel DIMM Sockets supporting ECC and non-ECC DDR333/
400 SDRAM Memory
128 MB, 256 MB, 512 MB and 1 GB DIMMs
Maximum Memory Capacity of 4 GB

System Management

Intel® Precision Cooling Technology
Intel® Active Monitor
Fan Status/Temperature Monitoring and Alert
Auto Stop 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 Detection
Keyboard Power-on
System Resources: Memory & Hard Disk Drive Utilization Monitoring & Alert,
Wake-on-LAN, Wake-on-Ring, Wake-from-USB, and Wake-from-PS/2 Devices Support
Suspend-to-RAM

Integrated PCI IDE

2 Independent Channels - PCI Bus Master IDE Ports
Supports 4 IDE and EIDE Drives
Supports Bus Master 8237-style DMA Mode (16 MB/sec maximum)
Supports Bus Master Ultra DMA/33 (33 MB/sec maximum)
Supports Bus Master Ultra DMA/66 (66 MB/sec maximum)
Supports Bus Master Ultra DMA/100 (100 MB/sec maximum)
ATAPI Devices Supported
Laser Servo Devices Supported
SCSI LED Connector (Optional)

Integrated Serial ATA

2 Independent Channels
Supports 2 SATA Devices
Supports First Party DMA (150 MB/sec maximum)
Intel® Raid Technology RAID 0 via Intel® 82801ER I/O Controller Hub (ICH5-R)

Integrated LAN

Intel® PRO/1000 CT Desktop Network Interface Controller Subsystem
Intel® 82875P MCH Device w/ Integrated LAN Media Access Controller (MAC)
Intel® 82547EI Platform LAN Connect Device (PLC) for Gigabit LAN Connectivity through Communication Streaming Architecture (CSA) Port

Integrated Super I/O

Floppy Controller for 3 Mode Support (up to 2.88 MB drive type)
1 PS/2 Keyboard and 1 PS/2 Mouse Port
One Serial Port (16550 Fast UART Compatible)
One ECP/EPP Parallel Port
Eight USB 2.0 Ports
Six Back Panel: Three Dual Stack Connectors
Two Front Panel: One Dual Stack
One RJ-45 Port with Two Integrated LEDs

Expansion Slots

Five PCI and AGP 8X

Bus Architecture

32-bit PCI and 1.5V AGP 8X

Housing Configuration

Thermally Advantaged MidTower Chassis

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

428 x 181 x 395 / 16.85 x 7.13 x 15.55

Drive Bays

5.25 inch External = 3
3.5 inch External = 2
3.5 inch Internal (Standard/Optional) = 2/0

Power Supply Features

Input Voltage	100-240 VAC
Input Frequency	50/60 Hz
Input Currents	10.0 / 5.5 A
Device Power Connectors	7 for 5.25" and 2 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 55° C / 32° to 131° F
Storage Temperature: -40° to 70° C / -42° to 158° F
Relative Humidity: 92% RH @ 36° C / 97° F
Airflow Requirements: 100 LFM

Regulatory & Product Certifications

EMI/RFI: FCC Declaration of Conformity (DoC)
Safety: Underwriter Laboratories 1950, 1st Edition
EPA: Energy Star Compliant

Options

Front Bezel and Side Panel Dust Filter
80 mm Cooling Fan 2

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