

# APOLLO



## Apollo Series Workstation

### Key Features

- Thermally Advantaged MidTower Chassis
- 250, 300, 350 or 400 Watt Power Supply
- Intel® Celeron® Processor - up to 2.4 GHz
- Intel® Pentium® 4 Processor - up to 3.2 GHz
- Intel® NetBurst™ Microarchitecture
- Intel® Hyper-Threading Technology
- 400, 533, or 800 MHz Front Side Bus (FSB)
- Intel® 865G Chipset
- Maximum 4 GB DDR266/333/400 SDRAM
- Front Panel USB 2.0 Ports and Audio Connections
- Integrated Intel® Flex 6 AC' 97 Audio and Front Panel Microphone Input
- Intel® PRO/100+ Ethernet or PRO/1000 Gigabit LAN
- Eight Hi-Speed USB 2.0 ports
- FCC DoC, UL Listed, EPA Energy Star Compliant
- DMI, ACPI, PC '01 Compliant

With the advent of this latest Apollo Series Model I191, in a Thermally Advantaged MidTower chassis, stellar performance has merged with revolutionary economy to deliver a cost-to-performance system that is unparalleled. At its core, the Apollo is powered by the fastest desktop processor available, the 800 MHz front side bus Intel® Pentium® 4 processor. To match the astounding system bus throughput of the processor, the Apollo Series Model I191 is capable of handling dual channel DDR400 SDRAM memory for a data transfer rate of up to 6.4 GB per second. Its Serial ATA hard disk capability also assures the Apollo's leading-edge data transfer rate is not limited to the processor and memory. Other hardware characteristics of its feature set include: up to six USB 2.0 ports, integrated Intel® Flex 6 six channel audio architecture, and Intel's Hyper-Threading Technology. Network connectivity is provided through Intel's Network Interface Subsystem featuring Intel® PRO/100+ 10/100 Ethernet LAN or Intel® PRO/1000 Gigabit Ethernet LAN. High-end graphics capability is provided by either the integrated onboard Intel® Extreme Graphics 2 solution or the latest video accelerators via the Apollo's AGP 8X slot.



# Model CM3-I191

# Apollo Series Workstation

## Processor

mPGA478-pin Package  
400 MHz, 533 MHz, or 800 MHz Front Side Bus (FSB)  
Intel® NetBurst™ Microarchitecture  
Intel® Hyper-Threading Technology  
Intel® Pentium® 4 Processors 1.5 GHz to 2.8 GHz @ 533 MHz FSB  
Intel® Pentium® 4 Processors w/ HT 3.06 GHz @ 533 MHz FSB  
Intel® Pentium® 4 Processors w/ HT 2.4 to 3.2 GHz @ 800 MHz FSB  
Intel® Celeron® Processors 1.7 GHz to 2.4 GHz @ 400 MHz

## Chipset

Intel® 865G Chipset  
Intel® 82865G Graphics and Memory Controller Hub (GMCH) with Accelerated Hub Architecture (AHA) Bus  
Intel® 82801EB I/O Controller Hub (ICH5) with AHA Bus  
Intel® 82802AB 4Mbit Firmware Hub (FWH)

## BIOS

4 Mbit Flash EEPROM  
Intel®/AMI BIOS - DMI 2.0, WfM 2.0, Plug & Play, SMBIOS, and Wake-On-LAN  
IDE Drive Auto-Configure and Intel® Rapid BIOS Boot  
Supports ZIP Drives, 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  
128 KB or 512 KB On-Die, Full Speed Level 2 (Advanced Transfer Cache)

## System Memory

Four 184-pin Dual Channel DIMM Sockets supporting non-ECC DDR266/333/400 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  
CPU Fan Auto Stop Power Saving  
CPU Auto Slow-Down Overheat Detection  
Power Supply Voltage Monitoring and Alert  
Chassis Intrusion Detection  
Keyboard Power-on/ Suspend-to-RAM  
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

## 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 (100 MB/sec maximum)  
ATAPI CD-ROM Supported  
SCSI LED Connector (Optional)

## Integrated Serial ATA

2 Independent Channels  
Supports 2 SATA Devices  
Supports First Party DMA (150 MB/sec maximum)

## Integrated Video

Integrated Intel® Extreme Graphics 2 Controller  
Dynamic Video Memory Technology (DVMT) Supporting up to 64MB

## Integrated Audio

Intel® Flex 6 Audio Subsystem  
Analog Devices AD1985 Audio CODEC  
Intel® 82801EB I/O Controller Hub (ICH5)  
Back Panel Connectors: Line-in, S/PDIF/Line-out, & Microphone-in (mono or stereo)  
Front Panel Connectors: Line-out and Microphone-in (mono or stereo) (Optional)

## Integrated LAN (Optional)

Intel® Network Interface Controller Subsystem  
Intel® PRO/100+ utilizing Intel® 82562EX PLC for Ethernet LAN Connectivity or  
Intel® PRO/1000 utilizing Intel® 82547EI PLC for Gigabit Ethernet LAN Connectivity

## Integrated Super I/O

One Floppy Port for One Drive (1.44 MB or 2.88 MB drive type)  
One Serial Port (16550 Fast UART compatible)  
One ECP/EPP Parallel Port  
One PS/2 Mouse Port, 1 PS/2 Keyboard Port  
Six Back-panel USB 2.0 Ports: Two Dual Stack and One USB Connector Set  
Two Front-panel USB 2.0 Ports: One Dual Stack  
One RJ-45 Port (Optional)

## Expansion Slots

Six PCI and AGP 8X

## Bus Architecture

32-bit PCI and 1.5V AGP 3.0

## 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	100-120 VAC/200-240 VAC
Input Frequency	50/60 Hz
Input Currents	10.0 A / 5.5 A
Device Power Connectors	7 for 5.25" and 2 for 3.5" Devices
Green PC	EEF Energy Efficient PC
Maximum Output	250/300/350/400 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 (UL) 60950, 3rd Edition  
EPA: Energy Star Compliant

## Options

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

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