

# APOLLO



## Apollo Series Workstation

### Key Features

- Thermally Advantaged MidTower Chassis
- 250, 300 or 350 Watt Power Supply
- Intel® Celeron® Processor - up to 2.2 GHz
- Intel® Pentium® 4 Processor - up to 3.06 GHz
- Intel® NetBurst™ Microarchitecture
- Intel® Hyper-Threading Technology
- 400 or 533 MHz Front Side Bus (FSB)
- Intel® 845GE Chipset
- Maximum 2 GB DDR333/266 SDRAM memory
- Front Panel USB 2.0 Ports and Audio Connections
- Integrated AC' 97 Audio with SoundMAX® Cadenza® with SPX® and stereo microphone inputs
- Optional Intel® PRO/100 Network Connection
- Six Hi-Speed USB 2.0 ports
- FCC DoC, UL Listed, EPA Energy Star Compliant
- DMI, ACPI, PC '01 Compliant

The Apollo Series Model I168, in a Thermally Advantaged MidTower design, delivers an extremely flexible, reliable, and cutting-edge platform. Its Intel® 845GE chipset utilizing next generation DDR333 SDRAM, coupled with Intel's latest Pentium® 4 533 MHz front side bus processors with Hyper-Threading Technology, enhances office productivity by delivering an unparalleled cost-to-performance capability. Intel® Active Monitor, Instantly Available PC Technology (Suspend-to-RAM), stereo microphone input for enhanced voice recognition capability, and Precision Cooling Technology for real-time fan cooling and quieter system operation are but some of the leading edge technologies incorporated into the Apollo Series Model I168. Other hardware characteristics of its feature set include: up to six USB 2.0 ports, integrated high quality 20-bit 6-channel audio architecture, and unparalleled video capability with Intel® Extreme Graphics and AGP 4X. Network connectivity is provided through Intel's PRO/100 LAN connection utilizing a LAN connect interface (LCI) offering a flexible network solution such as 10/100 Ethernet or 10/100 Ethernet with LAN management. These extraordinary features will assure the Apollo Series' place at the vanguard of any future performance requirements.



# Model CM3-I168

# Apollo Series Workstation

## Processor

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

## Chipset

Intel® 845GE Chipset  
Intel® 82845GE Memory Controller Hub (MCH) with Accelerated Hub Architecture (AHA) Bus  
Intel® 82801DB I/O Controller Hub (ICH4) with AHA Bus  
Intel® 82802AB Firmware Hub (FWH)  
PCI 2.2 Compliant & Concurrent PCI for Real-Time I/O

## 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  
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 uop 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

Two 184-pin gold-plated DIMM Sockets supporting 2.5V Non-ECC DDR333/266 SDRAM Memory  
128 MB, 256 MB, 512 MB, and 1 GB DIMMs  
Maximum Memory Capacity of 2 GB

## System Management

Intel® Precision Cooling Technology  
Intel® Active Monitor  
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 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 (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 CD-ROM Supported  
SCSI LED Connector

## Integrated Video

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

## Integrated Audio

Analog Devices AD1981B AC '97 Audio CODEC with SoundMAX® Cadenza®  
Back Panel Audio Connectors: One Line-in, One Line-out, and One Microphone-in (mono or stereo)  
Front Panel Audio Connectors: Line-out and Microphone-in (mono or stereo) Ports

## Integrated LAN (Optional)

Intel® ICH4 (with Integrated LAN Media Access) Network Interface Controller Subsystem  
Intel® 82562ET Chipset complying with IEEE 802.3u Auto-Negotiation and IEEE 802.3x Full-Duplex Flow Control Standards

## Integrated Super I/O

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

## Expansion Slots

Six PCI Slots, 1 AGP 4X Connector  
Communication and Networking Riser (CNR) (optional)

## Bus Architecture

32-bit PCI, AGP 4X

## 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	10.0/5.5A
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

80 mm Cooling Fan 2

## NCS Technologies, Inc.

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