

# APOLLO



## Key Features

- Thermally Advantaged MidTower Chassis
- 250, 350, or 460 Watt Power Supply
- Intel® 945G Chipset
- Intel® Celeron® D Processor 3xx
- Intel® Pentium® D Processor 8xx 9xx (Dual-Core)
- 533 MHz, 800 MHz or 1066 MHz Front Side Bus
- Dual Channel DDR2 SDRAM
- Intel® PRO 1000 Gigabit Ethernet
- Intel® GMA 950 Graphics and PCI Express x16
- Integrated 6-Channel (5.1) High Definition Audio
- Intel® Trusted Platform Module (TPM) v1.2
- Intel® Matrix Storage Technology
- Intel® Active Management Technology (Intel® AMT)
- FCC DoC, UL Listed, EPA Energy Star Compliant
- DMI, ACPI, PC '01 Compliant

## Apollo Series Workstation

Like a castle keep in days of yore, the Apollo Series Model CM3-I283 revolutionizes projective performance with its unparalleled headroom computing potential; and simultaneously, is un-spurred against the gauntlet of malicious hacks and attacks prevalent in today's global computing environment. Power blazoned usage features emblematic of Intel's leading-edge dual-core processors, coupled with DDR2 memory utilization, radiates this Apollo's dominance in office productivity by furnishing an unparalleled throughput to energy consumption supremacy. Beyond firewalls and virus shields is the Apollo's support for Attestation and signature keys protection, which are key on-chip features inherent to its Intel® Trusted Platform Module. With its active management features, an arsenal of control tools can lower overall TCO and helps maintain asset surety. Answering graphics' clarion call, the Apollo's provides vivid visual clarity and nearly doubles video throughput with its integrated graphics or PCI Express x16 slot (hosting the latest video accelerators). With these features, the Apollo I283 stands upon a proverbial hilltop towering over the computing landscape.



# Model CM3-I283

# Apollo Series Workstation

## Processor

FC-LGA4 Package (775-land Package)  
Intel® NetBurst™ Microarchitecture  
533 MHz, 800 MHz, or 1066 MHz Front Side Bus (FSB)  
Intel® Celeron® D Processors 3xx  
2.53 GHz to 3.2 GHz (533 MHz FSB)  
Intel® Pentium® 4 Processors 5xx & 6xx  
3.0 GHz to 3.8 GHz (800 MHz FSB)  
Intel® Pentium® D Processors 8xx 9xx (Dual-Core)  
2.8 GHz to 3.6 GHz (800 MHz FSB)

## Chipset

Intel® 945G Chipset  
Intel® 82945G Graphics Memory Controller Hub (GMCH) with Direct Media Interface (DMI) Interconnect  
Intel® 82801GR I/O Controller Hub (ICH7-R) with DMI Interconnect  
Intel® Serial Peripheral Interface (SPI) Flash Device  
PCI 2.2 Compliant & Concurrent PCI for Real-Time I/O

## BIOS

4 Mbit (512 KB) Flash Memory Device via Intel® SPI Flash Memory  
System Management BIOS (SMBIOS)  
DMI 2.0, WfM 2.0, Plug & Play, SMBIOS, Multi-Lingual support  
Supports CD-ROM, Diskette, Hard Disk or Network Bootup  
PC '01 Compliant

## Cache

Intel® Celeron® D Processor 3xx  
12k µop Level 1 Execution Trace Cache and 16 KB Level 1 Data Cache  
256 KB On-die, Full Speed Level 2 Cache (Advanced Transfer Cache)  
Intel® Pentium® 4 Processor 5xx & 6xx  
12k µop Level 1 Execution Trace Cache and 16 KB Level 1 Data Cache  
1 MB or 2 MB On-die, Full Speed Level 2 Cache (Advanced Transfer Cache)  
Intel® Pentium® D Processor 8xx 9xx (Dual-Core)  
2 x (12k µop Level 1 Execution Trace Cache and 16 KB Level 1 Data Cache)  
2 x (1 MB On-die, Full Speed Level 2 Cache)

## System Memory

Four 240-pin Dual Channel DIMM Sockets supporting Non-ECC 667 MHz and 533 MHz  
DDR2 SDRAM Memory  
128 MB, 256 MB, 512 MB and 1 GB DIMMs  
Maximum Memory Capacity of 4 GB

## System Management

Intel® Hardware Management Subsystem  
Hardware Monitoring and Fan Control ASIC  
Chassis Intrusion and Detection  
Thermal and Voltage Monitoring  
Enhanced Advanced Configuration and Power Interface (ACPI) v1.0b  
LAN Wake, Resume-on-Ring, Wake-from-USB, and Wake-from-PS/2 Devices Support  
Instantly Available PC Technology  
Alert Standard Format (ASF) v2.0  
Intel® Active Management Technology (Intel® AMT)

## Integrated PCI IDE

First Independent Channel via Intel® 82801G I/O Hub (ICH7)  
Supports Two IDE or EIDE Drives  
Supports Bus Master Ultra DMA/33/66/100 (100 MB/sec maximum)

## Integrated Serial ATA/RAID

4 Independent Channels  
Supports 4 Serial ATA Devices  
Supports 3 GB/sec maximum (SATA-IO Specification)  
Intel® Matrix Storage Technology via Intel® 82801GR I/O Controller Hub (ICH7-R)  
Supports RAID 0, RAID 1, RAID 5, RAID 0 +1 or RAID 10

## Security & Encryption

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

## Integrated Video

Intel® Graphics Media Accelerator (GMA) 950  
Dynamic Video Memory Technology (DVMT) up to 224 MB  
Supports Intel® Advanced Digital Display (ADD2/ADD2+) Cards

## Integrated LAN

Integrated Gigabit Ethernet Subsystem  
Intel® 82573E Gigabit Ethernet Controller  
One RJ-45 Port with Two Integrated LEDs

## Integrated Audio

Integrated 6-Channel (5.1) High Definition Audio Subsystem  
Intel® 82801G I/O Controller Hub (ICH7)  
SigmaTel® STAC9220 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 Super I/O

Floppy Controller for Mode 3 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  
Two Rear Dual Stack, One Front Dual Stack, and Two via Internal Headers (Optional)  
Three IEEE 1394 Ports  
One Rear Panel and Two via Internal Headers (Optional)

## Expansion Slots

Two PCI Conventional  
One PCI Express x1 and One PCI Express x16

## Bus Architecture

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

## Housing Configuration

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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**NCS Technologies, Inc.**

9490 Innovation Drive Voice: (703) 621-1700  
Manassas, VA 20110 Toll-Free: 1 (888) RING-NCS  
www.ncst.com Fax: (703) 621-1701

