APOLLO

Apollo Series Workstation

Key Features

- Thermally Advantaged MidTower Chassis
- 300, 350, or 460 Watt Power Supply
- Intel® 955X Chipset
- Intel® Pentium® D Processor 8xx (Dual-Core)
- Intel® Pentium® Processor 8xx Extreme Edition
- 533 MHz, 800 MHz, or 1066 MHz Front Side Bus
- Maximum 8 GB 667MHz DDR2 SDRAM
- PCI Express x16
- Integrated 8-Channel (7.1) High Definition Audio
- Dual Gigabit LAN Connectivity
- USB 2.0 and 1394 Ports
- Parallel ATA, Serial ATA 3Gb/s, External Serial ATA, and Serial ATA II
- FCC DoC, UL Listed, EPA Energy Star Compliant
- DMI, ACPI, PC '01 Compliant

Hardcore gaming aficionados and office power users alike will find the ultimate performance computing thoroughbred in the Apollo Series Model CM3-A272 workstation. Designed around Intel's 955X Chipset, and ideally optimized to deliver extreme performance, the Apollo has native DDR2 SDRAM support as well as supporting Intel's Pentium® 4 and Pentium® D 8xx Processors, including Extreme Editions. Onboard the Apollo are high bandwidth enabling technologies to speedily process immersive gaming action or office multimedia content. Storage technologies such as Serial ATA 3GB/s, Serial ATA II, and RAID not only increase traffic throughput and data retrieval but also virtually guarantee information integrity. The Apollo's dual Gigabit Ethernet, through OS or hardware assisted virtualization, can breathtakingly enable arena game play action, or content creation, across two independent networks. 8-Channel Dolby Digital, PCI Express x16, USB and Firewire® technologies will assuredly round out the Apollo's feature-clad victory in any heads-up competition.

Model CM3-A272 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® Pentium® 4 Processors 5xx & 6xx 3.0 GHz to 3.8 GHz (800 MHz FSB)
Intel® Pentium® 4 Processor Extreme Edition 3.73 GHz (1066 MHz FSB)
Intel® Pentium® D Processors 8xx (Dual-Core) 2.8 GHz to 3.2 GHz (800 MHz FSB)
Intel® Pentium® Processor Extreme Edition 8xx (Dual-Core) 3.2 GHz (800 MHz FSB)

Chipset
Intel® 955X Chipset
Intel® 82955X Memory Controller Hub (MCH) with Direct Media Interface (DMI) Interconnect
Intel® 82801GR I/O Controller Hub (ICH7-R) with DMI Interconnect
Intel® 82802AC Firmware Hub (FWH) or Intel® Serial Peripheral Interface (SPI) Flash Device
PCI 2.2 Compliant & Concurrent PCI for Real-Time I/O

BIOS
8 Mbit Flash EEPROM
Award® PCI BIOS - DMI 2.0, WfM 2.0, Plug & Play,
Automatic Hard Disk Detection
Build-in Password Protection
Enhanced Advanced Configuration and Power Interface (ACPI) v1.0b
PC '01 Compliant

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® 4 Extreme Edition
12k µop Level 1 Execution Trace Cache and 16 KB Level 1 Data Cache
2 MB On-die, Full Speed Level 2 Cache (Advanced Transfer Cache)
Intel® Pentium® D Processor 8xx (Dual-Core) & Intel® Pentium® Extreme Edition 8xx (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 ECC or Non-ECC 800 MHz, 667 MHz, or 533 MHz DDR2 SDRAM Memory
256 MB, 512 MB, 1 GB, and 2 GB DIMMs
Maximum Memory Capacity of 8 GB

System Management
AI NOS™ (Non-delay Overclocking System)
Asus C.P.U. (CPU Parameter Recall) and CPU Lock Free
Asus Q-Fan2 Technology
Fan Status/Temperature Monitoring and Alert
Auto CPU Fan Stop in Suspend Mode & Auto CPU Slow-Down When Overheating Detected
Power Supply Voltage Monitoring and Alert
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/Serial ATA
Silicon Image 3132 SATALink™ PCI Express to 2-Port Serial ATA II Host Controller
Supports Serial ATA II: 3Gb/s, Native Command Queuing, First Party DMA, Port Multipliers w/ FIS-based Switching, Hot Plug, &c.
Supports External Serial ATA Connectability
Supports 2 Serial ATA II Drives
Intel® 82801GR I/O Controller Hub (ICH7-R) Parallel ATA IDE Host Controller
Supports 2 IDE and EIDE Drives
Supports Bus Master Ultra DMA/33/66/100 (100 MB/s Maximum)
Intel® 82801GR I/O Controller Hub (ICH7-R) Serial ATA Host Controller
Supports First Party DMA
Supports 4 Serial ATA 3 GB/s Drives (SATA-IO Specification)
ITE 8211F IDE Controller
Supports 4 IDE and EIDE Drives
Supports Bus Master Ultra DMA/66/100/133 (133 MB/s Maximum)

Integrated RAID
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
Sil 3132 Controller
Supports Sil SATARaid™ RAID Management w/ Software RAID 0 & RAID 1
Supports SATA Port Multiplier w/ Software RAID 0, RAID 1, RAID 10, & RAID 5

Integrated Audio
Integrated 8-Channel (7.1) High Definition Audio
RealTEK ALC882D Audio CODEC w/ Universal Audio Architecture (UAA)
Front Panel Connectors: Line Out/Retasking Jack, and Microphone In/Retasking Jack
Back Panel Connectors: Line In/Side Surround Left and Right/Retasking Jack, Surround Left and Right/Retasking, Center Channel and LFE (Subwoofer)/Retasking Jack, Line Out/Retasking Jack, Microphone In/Retasking Jack, and S/PDIF Digital & Coaxial Audio Out

Integrated LAN
Dual Integrated Gigabit Ethernet Subsystem
Intel® 82573E/82573V/82574V Gigabit Ethernet Controller
Marvell Yukon 88E8001 Gigabit Ethernet Controller

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 External Serial ATA Port
One ECP/EPP Parallel Port
Four USB 2.0 Ports
One RJ-45 Port
One IEEE 1394 Port

Expansion Slots
Three 32-bit PCI
One PCI Express x1
One PCI Express Universal (x4 mode)
One PCI Express x16

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

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