

# GEMINI



## Key Features

- Thermally Advantaged MidTower Chassis
- Intel® Core™ 2 Duo Processor E6XXX, E4XXX
- Intel® Pentium® 4 Processor 5XX 6XX
- Intel® 945P Chipset
- Dual Channel DDR2 SDRAM
- Integrated 8-Channel (7.1) High Definition Audio
- Supports up to 8 USB Ports
- Supports Windows™ Vista
- 350W 80 Plus High-Efficiency Power Supply
- FCC DoC, UL Listed, EPA Energy Star Compliant
- DMI, ACPI, PC '01 Compliant

## Gemini Series Workstation

The Gemini CM4-A274 is an established work-horse that combines a sleekly redesigned chassis with incomparably efficient performance for departmental or enterprise desktop computing environments at an attractive price point. When powered by the most advanced Intel® Core® 2 Duo processor, not only are multi-threaded applications and multitasking a snap, Gemini delivers an array of innovative features and new benefits critical to any business. Gemini also delivers greater than 3.5 times the bandwidth over the traditional AGP 8X interface and supports the latest high-performance graphics cards. Dual-channel DDR2 technology doubles the bandwidth of your system memory, boosting the system performance to outperform any memory existing solutions in the market. In addition, Intel® Matrix Storage Technology adds another layer of protection by preventing data loss and ensuring reliability. In short, Gemini offers valuable capabilities crucial to any business: a feature-packed system delivering consistent performance, security and connectivity while remaining a commercially sound business infrastructure solution.



# Model CM4-A274

# Gemini Series Workstation

## Processor

FC-LGA4 Package (775-land Package)  
Intel® NetBurst™ Microarchitecture  
533 MHz, 800 MHz, or 1066 MHz Front Side Bus (FSB)  
Intel® Core 2™ Extreme Processor X6800 (Dual Core)  
2.93 GHz (1066 MHz FSB)  
Intel® Core 2™ Duo E6XXX (Dual Core)  
1.86 GHz to 2.66 GHz (1066 MHz FSB)  
Intel® Core 2™ Duo E4XXX (Dual Core)  
1.8 GHz to 2.4 GHz (800 MHz FSB)  
Intel® Pentium® 4 Processors 5xx & 6xx  
2.8 GHz to 3.8 GHz (800 MHz FSB)  
Intel® Celeron® D Processors 3xx  
2.53 GHz to 3.6 GHz (533 MHz FSB)

## Chipset

Intel® 945P Chipset  
Intel® 945P Chipset Express Chipset Memory Controller Hub (MCH) with  
Direct Media Interface (DMI) Interconnect.  
Intel® 82801GR I/O Controller Hub (ICH7-R) with DMI Interconnect.

## BIOS

4 Mbit Flash ROM  
AMI BIOS - DMI 2.0, WfM 2.0, Plug & Play,  
Award® JumperFree Trend® ChipAway Virus, SM BIOS 2.3  
Asus EZ Flash, ASUS CrashFree BIOS 2  
PC '01 Compliant

## System Memory

Four 240-pin DDR2 667/533/400 SDRAM Memory  
Unbuffered ECC and non-ECC DIMMs  
Dual Channel Memory Architecture  
256 MB, 512 MB, and 1 GB DIMMs  
Maximum Memory capacity of 4 GB

## System Management

Hardware, Voltage and Thermal Monitoring  
CPU Fan Control Through Asus Q-Fan  
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

## Integrated PCI IDE

First Independent Channel via Intel® 82801GR I/O Hub (ICH7-R)  
Supports Two IDE or EIDE Drives Bus Master Ultra DMA/33/66/100 (100 MB/sec max)  
Secondary Integrated IDE Controller (ITE 8211F)  
Supports Two IDE or EIDE Drives Bus Master Ultra DMA/33/66/100/133 (133 MB/sec max)

## Integrated SATA/RAID

Four Independent Serial ATA Channels  
Supports Four Serial ATA Devices  
Supports 3 GB/sec Maximum (SATA-IO Specification)  
Intel® Matrix Storage Technology Supports RAID 0, RAID 1, RAID 5 or RAID 10

## Integrated Audio

Integrated Intel® ALC882 7.1-Channel High Definition Audio Subsystem  
Intel® 82801GR I/O Controller Hub (ICH7-M)  
Jack Sensing and Enumeration

## Integrated LAN

Marvell® 88E8053 PCI Express™ Gigabit LAN Controller  
Supports Marvell® Virtual Cable Tester Technology  
Support POST Network-Diagnostic Program

## Integrated Super I/O

One Parallel Port, One Serial Port  
One PS/2 Keyboard  
One PS/2 Mouse  
Four USB Ports  
One Audio I/O Port  
One RJ-45 Port  
One S/PDIF Out (Coaxial and Optical)

## Expansion Slots

Three 32-bit PCI, One PCI-Express x16, and Two PCI-Express x1

## Bus Architecture

PCI, PCI Express x16, and PCI Express x1

## Housing Configuration

Thermally Advantaged MiniTower Chassis w/ CAG 1.1

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

465 x 198 x 425 / 18.3 x 7.8 x 16.7

## Drive Bays

5.25 inch External	4
3.5 inch External	1
3.5 inch Internal	4

## Power Supply Features

Input Voltage	100-240 VAC
Input Frequency	50/60 Hz
Input Currents	5 A
Device Power Connectors	4 for 5.25", 2 Serial ATA, and 1 for 3.5" Devices
Maximum Output	350 Watts
Form Factor	ATX12V v2.2
Power Factor Correction	Active PFC
Efficiency	>80% at Normal Input Voltage
Internal Fan	12 cm

## Environmental

Operating Temperature:	+10° to +35° C / +50° to 95° F
Storage Temperature:	-40° to +70° C / -42° to +158° F
Relative Humidity:	8 % to 90% @ +35° C / +95° F

## Regulatory & Product Certifications

EMI/RFI:	FCC Declaration of Conformity (DoC) CUL Listed, TUV Certified, Europe/CE Mark, EN 60950/IEC60950-Compliant
Safety:	Underwriter Laboratories 60950, 3rd Edition

## Options

Two 120 mm Cooling Fans, 1 Rear and 1 Front (optional)

SPEC-CM4A274-01-100307

**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



Actual functionality may be limited to other factors, including type, number and capabilities of optional modules incorporated. NCS may make changes to product specifications at any time and without notice. The information in this document is for informational use only, is subject to change without notice. NCS assumes no responsibility or liability for any errors or inaccuracies that may appear. All names are provided for informational use only. Other brands and names may be claimed as property of their respective owners.