

# GEMINI



## Key Features

- Thermally Advantaged Micro Tower
- Intel® Q965 Chipset
- Intel® Core™ 2 Duo Processor E6xxx (Dual-Core)
- Intel® Pentium® D Processor 9xx (Dual-Core)
- 533 MHz, 800 MHz, or 1066 MHz FSB
- Dual Channel DDR2 SDRAM
- Intel® PRO 1000 Gigabit Ethernet
- Intel® GMA 3000 Graphics and PCI Express x16
- Integrated 6-Channel (5.1) High Definition Audio
- Intel® Trusted Platform Module (TPM) x1.2
- Intel® vPro™ Technology
- Intel® Matrix Storage Technology
- Intel® Active Management Technology (Intel® AMT)
- 350 Watt Power Supply
- FCC DoC, UL Listed, EPA Energy Star Compliant
- DMI, ACPI, PC '01 Compliant

## Gemini Series Workstation

The Gemini Series Model I315 is an artful combination leading-edge media technologies and high performance bandwidth capabilities. Its superior computing power is provided by Intel's Core™ 2 Duo Processor (Dual-Core), having two physical processors on the same silicon, each with separate on-die cache. In addition to raw power, the Gemini runs cooler and quieter, thanks in part to better processor specific thermal and power enhancements. Higher data throughput is provided by the Gemini's dual channel 800 MHz DDR2 SDRAM utilization. For digital media storage capacity, the Gemini incorporates four independent Serial ATA channels, each supporting next generational drives with 3 GB/sec transfer rates, and utilizes Intel's Matrix Storage Technology. Superb video technologies such as the Intel® GMA 3000 Graphics or PCI Express x16 architecture for high-end video accelerators lends to any qualitative viewing or multimedia demand load. With the latest in Intel's Trusted Platform Module, as well as Intel® vPro™ Technology and Intel® AMT, these data integrity and asset management tools will lower overall TCO. No matter what the productive or digital content, the Apollo Series assuredly maximizes secure multimedia performance.



# Model CM4-I315

# 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 Duo Processor E6xxx (Dual-Core)  
1.86 GHz to 2.66 GHz (1066 MHz FSB)  
Intel® Pentium® D Processors 9xx (Dual-Core)  
2.8 GHz to 3.6 GHz (800 MHz FSB)  
Intel® Pentium® 4 Processors 6xx  
3.0 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® Q965 Chipset  
Intel® 82Q965 Graphics Memory Controller Hub (GMCH) with Direct Media Interface (DMI) Interconnect  
Intel® 82801HO I/O Controller Hub (ICH8-DO) 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, Multi-Lingual support  
Supports CD-ROM, Diskette, Hard Disk or Network Bootup  
PC '01 Compliant

## Cache

Intel® Core™ 2 Duo Processor  
2 x 32 KB Instruction and 2 x 32 KB Write-back Data L1 Cache  
2 MB or 4 MB On-die Full Speed L2 Cache (Shared) (Advanced Smart Cache)  
Intel® Pentium® D Processor 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)  
Intel® Pentium® 4 Processor 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® 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)

## System Memory

Four 240-pin Dual Channel DIMM Sockets supporting Non-ECC 800 MHz, 667 MHz, or 533 MHz DDR2 SDRAM Memory  
256 MB, 512 MB, 1 GB, or 2 GB DIMMs  
Maximum Memory Capacity of 8 GB (667 MHz or 533 MHz)  
Maximum Memory Capacity of 4 GB (800 MHz)

## 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 and Alert Standard Format (ASF) v2.0  
Intel® vPro™ Technology  
Intel® Active Management Technology (Intel® AMT)

## Integrated PCI IDE/Serail ATA/RAID

First Independent Channel via Intel® 82801HO I/O Hub (ICH8-DO)  
Supports Two IDE or EIDE Drives Bus Master Ultra DMA/33/66/133 (133 MB/sec maximum)  
Six Independent Serial ATA Channels  
Supports Six Serial ATA Devices  
Supports 3 GB/sec maximum (SATA-IO Specification)  
Intel® Matrix Storage Technology via Intel® 82801HO I/O Controller Hub (ICH8-DO)  
Supports RAID 0, RAID 1, RAID 5, RAID 0 +1 or RAID 10

## Integrated Video

Intel® Graphics Media Accelerator (GMA) 3000  
Dynamic Video Memory Technology (DVMT) up to 256 MB  
Supports Intel® Advanced Digital Display (ADD2/MEC) Cards

## Integrated LAN

Integrated Gigabit Ethernet Subsystem  
Intel® 82566DM Gigabit Ethernet Controller  
One RJ-45 Port with Integrated LEDs

## Integrated Audio

Integrated 6-Channel (5.1) High Definition Audio Subsystem  
Intel® 82801HO I/O Controller Hub (ICH8-DO)  
SigmaTel® STAC9227 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 Security & Encryption

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

## Integrated Super I/O

Floppy Controller for Mode 3 Support (up to 2.88 MB drive type)  
One PS/2 Keyboard Port  
One PS/2 Mouse Port  
One Serial Port (16550 Fast UART Compatible)  
One ECP/EPP Parallel Port  
Ten USB 2.0 Ports: One Rear Quad Stack, One Rear Dual Stack, One Front Dual Stack, and Two (Optional) via Internal Headers  
Two IEEE 1394 Ports: One Rear Panel and One (Optional) via Internal Header

## 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

Thermally Advantaged MidTower 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	100-120 VAC/200-240 VAC
Input Frequency	47/63 Hz
In-rush Currents	100A max.
Device Power Connectors	5.25" and 3.5" Devices, Serial ATA, & PCI Express
Green PC	EEF Energy Efficient PC
Maximum Output	500 Watts
Form Factor	ATX v2.2
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
Airflow Requirements:	100 LFM

## 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  
120mm Cooling Fan

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