

GEMINI



Key Features

- Intel® 945G Chipset
- Intel® Core® 2 Duo Processor E6xxx, E4xxx
- Intel® Pentium® Dual-Core Processor E2xxx
- 800 MHz or 1066 MHz FSB
- Intel® Extended Memory 64 Technology
- Intel® GMA 950 Graphics
- Intel® High Definition Audio
- Supports Windows Vista™
- Gigabit Realtek RTL810SC LAN
- Up to 8 USB 2.0 Ports
- 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-M343 delivers leading-edge media technologies and energy efficient capabilities in a powerful platform. When powered by the most advanced Intel® Core® 2 Duo Processor, Gemini blows through processor-intensive tasks in demanding multitasking environments and makes the most of highly threaded applications. The onboard Intel® Graphics Memory Accelerator 950 automatically provides great graphics performance, making the extra expense of a separate graphics card unnecessary. In addition, the integrated Intel 8-channel audio architecture guarantees a superb surround sound experience. With a maximum of eight high-speed USB 2.0 ports, Gemini easily handles peripheral, communication and consumer electronic devices. A range of available CPU options and expansion capabilities is available, giving you the flexibility to build a computing solution relevant to your business requirements. Simply put, the CM4-M343 effortlessly melds powerful performance with versatility and accommodates a broad range of business needs.



Model CM4-M343

Gemini Series Workstation

Processor

FC-LGA4 Package (775-land Package)
Intel® Core® 2 Duo Processor E6xxx
1.86 GHz to 2.66 GHz (1066 MHz FSB)
Intel® Core® 2 Duo Processor E4xxx
1.8 GHz to 2.6 GHz (800 MHz FSB)
Intel® Pentium® Dual-Core Processor E2xxx
2.2 GHz to 2.4 GHz (800 MHz FSB)

Chipset

Intel® 945G Chipset
Intel® 82945G Graphics Memory Controller Hub (GMCH) with Direct Media Interface (DMI) Interconnect
Intel® 82801G I/O Controller Hub (ICH7) with DMI Interconnect
Intel® 82802AC Firmware Hub (FWH)
PCI 2.2 Compliant & Concurrent PCI for Real-Time I/O

BIOS

4 Mbit Flash EEPROM
Award® PCI BIOS - APM 1.2, Plug & Play 1.0a, SMBIOS 2.3, DMI 2.1, WfM 2.0
Enhanced Advanced Configuration and Power Interface (ACPI) v1.0b
Preboot Execution Environment (PXE) Supported
PC '01 Compliant

System Memory

Two 240-pin Dual Channel DIMM Sockets Supporting Non-ECC 533 MHz and 667 MHz
DDR2 SDRAM Memory
128 MB, 256 MB, 512 MB, and 1 GB DIMMs

System Management

Auto-throttling of CPU Fan in Suspend Mode to Save Power
Auto Slow-down of CPU When Overheating is Detected
Power Supply Voltage Monitoring and Alert
System Resources: Memory & Hard Disk Drive Utilization Monitoring & Alert Wake-On-LAN and Wake-On-Ring Supported

Integrated PCI IDE

1 Independent Channel - PCI Bus Master IDE Port
Supports 2 IDE or 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/33/66/100 (100 MB/sec maximum)
ATAPI CD-ROM Supported
1 Floppy Port Supports 1 FDD with 360K, 720K, 1.2M, 1.44M and 2.88Mbytes

Integrated Serial ATA

4 Independent Channels
Supports 4 Serial ATA Devices
Supports SATA2 (up to 300MB/s transfer speed)

Integrated LAN

Integrated Realtek RTL8110SC Gigabit Ethernet Controller (10/100/1000 Mbps/sec) LAN Subsystem

Integrated Video

Integrated Intel® GMA 950 Graphics Controller
Dynamic Video Memory Technology (DVMT) Supporting up to 224 MB

Integrated Audio

Intel® High Definition Audio
Integrated 8-Channel (7.1) Surround Sound Audio via RealTek ALC883 Audio Codec (Optional)
Front Panel Connectors: Line-out and Microphone-in
Back Panel Connectors: Line-in/Retasking Jack [Blue], Side Surround Left/Right Output [Grey], Rear Left/Right Output [Black], Center/LFE (Subwoofer) Output [Yellow], Microphone-in/Retasking Jack [Pink], Front Left/Right Output [Lime Green]

Integrated Super I/O

One PS/2 Keyboard and One PS/2 Mouse Port
One Serial Port
One ECP/EPP Parallel Port
Eight USB 2.0 Ports: Two Dual Back and One Dual Front Panel Connectors and Two via Internal Header
One VGA Port
One RJ-45 Port

Expansion Slots

One PCI Express X16 slots
Three 32-bit PCI Bus Slots

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	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 (UL) 60950, 3rd Edition
EPA: Energy Star Compliant

Fans

One 120mm Rear Cooling Fan
One 92mm Front Cooling Fan (Optional)

SPEC-CM4M343-01-112508

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