

Model R1300 PC Blade

Intel® Pentium® Dual-Core Processing Power in a Blade Form Factor

Featuring genuine Intel® Pentium® dual and single core processors, DDR2-667 memory and PCI-Express graphics, ClearCube Model R1300 PC Blades are the highest performance blade computers available today. ClearCube employs advanced thermal designs and cooling methods to deliver Intel's latest desktop processors in a blade computer format. Individual Blade cooling fans combined with high volume cage fans provide ample cooling, and since the ClearCube architecture centralizes the processors, users get full Pentium 4 performance without heat generation or fan noise at the desktop.

ClearCube offers a Multi-Video Solution for applications demanding advanced graphics and multiple displays. This option utilizes a special, quad capable, PCI-Express video adapter based on the NVIDIA Quadro® NVS graphics processor. The video adapter is an interchangeable mezzanine card that can be upgraded if needed. The ClearView video driver, based on NVIDIA's award winning nView software, provides the graphical interface for setting up and configuring the displays. The Multi-Video Solution can support standard analog input monitors and the newer digital input monitors at resolutions up to 1280x1024.



Specifications:

- General:** Intel 945G chipset
Dual Ethernet ports (Primary 10/100/1000 Mb/s, Secondary 10/100 Mb/s)
Phoenix BIOS supports PXE and Phoenix Phlash
Local USB 2.0 port on Blade front panel
Enables USB 2.0 port on back of R4300 chassis (requires 44-pin interposer)¹
- Components:** Integrated Intel GMA 950 Graphics
Optional NVIDIA Quadro NVS285 PCI-Express Graphics Card with 128 MB VRAM²
Intel Pentium D (dual-core) or Pentium 4 Processor³
SATA II hard drive
Dual-channel, DDR2-667, Non-Registered, Non-ECC Memory
Microsoft® Windows® XP Pro, Windows 2000 Pro or Linux Ready
See Ordering Information Below for Available Configurations
- Power Supply:** 205 W
- Dimensions:** 4.7" H x 23.5" D x 1.9" W (11.9 cm x 59.7 cm x 4.8 cm)
Eight (8) Blades fit in single Cage (standard 19" rack width)
- Weight:** 6 lbs. (2.7 kg)

Environment: Stationary office installation, 0 to 35° C

¹The R1300 must be ordered with a 44-pin interposer to enable the USB 2.0 port provided on the rear of each R4300 chassis

²Multi-video capable when combined with ClearCube Multi-Video eXpander (MVX)

³Pentium D and Pentium 4 processor system (front-side) bus speed is 800 MHz; single core processors feature Intel Hyper-Threading technology

Ordering Information

Use the following part numbers to order your R1300 PC Blade:

G091077 – Model R1300 PC Blade

Video (Optional)

G010078 – NVIDIA Quadro4 PCI-Express Graphics Card (Multi-video capable)

Processor (Required)

G932130-300 – Pentium 4 531 (single core), 3.00 GHz, 800 MHz FSB, 1 MB L2 Cache, Hyper-Threading Capable

G932131-340 – Pentium 4 650 (single core), 3.40 GHz, 800 MHz FSB, 2 MB L2 Cache, Hyper-Threading Capable

G932132-280 – Pentium D 820 (dual core), 2.80 GHz, 800 MHz FSB, 2x1 MB L2 Cache*

*Not available in countries with 100 V power supplies

Hard Disk Drive (Required)

G910022-080 – 80 GB, 7200 RPM SATA II HDD

G910022-160 – 160 GB, 7200 RPM SATA II HDD

Memory Modules (Required – Blade contains two (2) DIMM slots - two (2) modules of equal capacity required per PC Blade)

G920007-256 – 256 MB DDR2-667, Non-Registered, Non-ECC SDRAM

G920007-512 – 512 MB DDR2-667, Non-Registered, Non-ECC SDRAM

G920007-1000 – 1 GB DDR2-667, Non-Registered, Non-ECC SDRAM

Operating System (Required)

G053052 – Windows XP Professional SP2b English

G053056 – Windows XP Professional SP1a English

G053054 – Windows 2000 SP4 Professional English

G053057 – Windows XP Professional SP2 Japanese

G053030 – No OS Installed, Linux Ready

Chassis Interposer (Required)

G081091 – 30-pin Chassis Interposer

G081092 – 44-pin Chassis Interposer (enables USB 2.0 port on back of the R4300 Chassis)