

RM4510 Server

HIGH PERFORMANCE 4U SOLUTION



FEATURES AT A GLANCE

- 4U Rackmount or Pedestal Chassis
- Up to Four AMD Opteron Six-Core Processors
- Up to 256GB DDR2 ECC Memory
- SLI Video Support
- Up to Five Removable SAS or SATA Hard Drives
- 1200W 1+1 Redundant Power Supply
- Optional KVM-IP Management
- Up to 800GB Internal SSD Storage

PRODUCT OVERVIEW

The RM4510 rackmount server from Verari Technologies™ is the ideal enterprise computing solution for industries whose applications require extremely large memory models. The RM4510 delivers outstanding performance, dependability and value to digital content creation, MCAD, electronic design automation and seismic processing.

The RM4510 server is specifically engineered for complex, highly technical computing and high performance parallel applications. Support for the latest video cards running in SLI configurations allow the RM4510 to excel in graphics intensive applications such as visualization simulations and rendering while offering up to four times the memory and compute power of standard desktop seismic interpretation systems.

The RM4510 has been validated to support the latest NVIDIA® Quadro® graphics cards and Quadro Plex visual computing systems (VCS) which allow the system to scale graphics computing to meet the most

demanding professional CAD, DCC and visualization application requirements. Multiple NVIDIA Quadro Plex VCSs can be combined to scale performance, quality and display channels for a complete visualization solution.

The RM4510 server supports up to four AMD Opteron™ Six-Core 8400 Series processors and 256GB of ECC registered memory. Its revolutionary design uses the AMD64 Direct Connect Architecture to its full potential, providing new possibilities in customization and unparalleled bandwidth access while supporting advanced chipset features like AMD-V and enhanced AMD PowerNow!™ technology to decrease overall system power consumption without compromising performance.

The RM4510 is available in both a rackmount or pedestal configuration and supports a wide variety of options, including up to 10TB of internal RAID storage and external Fibre SAN Connectivity, or up to 800GB internal SSD storage.



Through innovation, Verari Technologies has developed and implemented equipment and procedures that achieve more by using less. Verari has made environmental responsibility a manufacturing priority by increasing the overall energy effectiveness of all our product lines while keeping the vision of the green data center in mind. Verari Technologies, through voluntary action, is committed to the reduction of e-waste utilized in the production of computers and other technological devices.



Processor

Options Include Four of the Following:

- Quad-Core AMD Opteron™ 8300 Series Processors (Up to 2.9GHz)
- Six-Core AMD Opteron 8400 Series Processors (Up to 2.6GHz)

Chipset

- NVIDIA® MCP55 Pro Chipset
- NEC® uPD720400 Chipset
- LSI 1068 SAS Controller

Memory

- Supports Up to 256GB DDR2-667 ECC Registered Memory

Storage

Options Include Up to Five SAS/SATA Hard Drives:

- Up to 10TB Internal SATA Storage
- Up to 2.2TB Internal SAS Storage

Power

- 1+1 Redundant 1200W HE Power Supply with PFC

Operating Systems

- Red Hat® Enterprise
- Linux Enterprise 5 x86-64
- SUSE Linux Enterprise 10 x86-64
- Cent OS 5 x86-64
- Microsoft® Windows® 2003/2008 Server

Optical Drive

- DVD-RW Drive

Networking

- Two 10/100/1000 Ethernet Connections
- Intel 82546GB LAN Controller

Mounting Options

- Convertible Pedestal
- 19" Rackmount Chassis (4U)

Front I/O Ports

- Two USB 2.0 Ports

Front Panel Indicators:

- Two LAN Activity LEDs
- HDD and Power LEDs
- System Overheat LED
- Power Fail LED
- Power and System Reset Buttons

Rear Panel

- Two USB 2.0 Ports
- One 15-pin VGA Port
- Two RJ-45 Gigabit Ethernet Ports
- One 9-pin UART Serial Port
- Two PS/2 Ports

Integrated PCI Graphics

- ATI™ ES1000 Controller
- 16MB Video Memory

Expansion Slots

- Two x16 PCI Express Slots with x16 Signal (SLI Capable)
- One x8 PCI Express Slot (x16 Slot is Configured as x8 Mode)
- One x8 PCI Express Slot (x4 Signal)
- Two PCI-X 133 64-bit Slots

Expansion Card Options

Options Include Two of the Following:

- One or Two NVIDIA Quadro® FX5600 PCI-E Video Cards (SLI Capable)
- One PCI-Express 4 or 8 Port SATA RAID CARD
- One PCI-Express 4 or 8 Port SAS RAID CARD
- One PCI-Express 4GB Dual Port Fibre HBA

Management and Monitoring

- IPMI 2.0 (Optional)
- Remote Power On/Off/Reset (Optional)
- KVM-IP (Optional)

Dimensions and Weight

- Height: 7.0" (178mm)
- Width: 19" (483mm)
- Depth: 29.4" (747mm)
- Weight: 95 lbs. (43kg)

Environmental

- Operating Temperature 5°C to 30°C (41°F to 86°F)
- Non-Operating Temperature 0°C to 60°C (32°F to 140°F)

CUSTOM CONFIGURATIONS

Verari Technologies supports multiple configurations and can tailor any system to your specific needs. If you have questions, please contact us today at (888) 942-3800 and ask to speak with a Verari Technologies Account Manager.

ABOUT VERARI TECHNOLOGIES

Verari Technologies, Inc. is the premier developer of scale-out blade-based computing and storage platforms for Cloud, Web 2.0, and the global enterprise. Verari provides scale-out solutions for the world's largest data centers that reduce power and cooling demands while achieving the best density, availability, and energy efficiency for the highest total value of ownership. Organizations such as Virgin America, Morgan Stanley, Wachovia, Akamai, Microsoft, Qualcomm, Johns Hopkins, EMC, CGGVeritas, Petrobras, Harris, Lockheed Martin, Northrop Grumman, and Sony Imageworks, as well as top universities and research institutions worldwide, are among the customers who have chosen Verari Technologies' award-winning containerized data centers and high density blade-based platforms.

Front View**Rear View****Internal View**