

AMD Opteron™ Workstation

HiPerStation 8000: Eight Socket Server



Maximum Opteron – The HPC 8 Socket Opteron Workstation

The HiPerStation 8000 delivers incredible computing performance, storage and visualization in a below the desk form factor. HiPerStation 8000 is ideally suited for high end graphics and visualization applications DirectX, OpenGL and 2D/3D rendering. It is also well suited for desktop supercomputing applications. The HPC HiPerStation 8000 features the latest high performance Opteron dual core microprocessors from AMD featuring the best in class DirectConnect architecture. The HPC HiPerStation 8000 combines the power of Opteron processors with the latest DDR2 memory, PCIe expansion bus and SAS/SATA storage technologies in a very quite package.



Highlights

- > Up to eight AMD Opteron 8000 series microprocessors with DirectConnect architecture - **total 48 Cores**
- > Up to 256 GB of 800 MHz DDR2 memory
- > Unbeatable expandability
- > Industry standard systems management with IPMI 2.0
- > Hot plug hard disks
- > Support for up to 4TB with the 2 terabyte SATA drives
- > Boost performance when you need it

Processor:

- > Supports Up to 8 sockets AMD Opteron™ 8000 series dual core / quad core / six core processors
- > Support AMD Opteron™ Shanghai / Istanbul CPUs

Chipset:

- > NVIDIA nForce4 Professional 2200 & 2050 chip PCI Express Controller and Southbridge

Graphic:

- > XGI XG20 16MB PCI graphics controller

Expansion Slots:

- > Two PCI Express x16 slots (x16 signaling)
- > Two PCI-Express X16 slots (x4 signaling)
- > One PCI 32bit 33MHz slot

Networking:

- > Total Three Gigabit Ethernet Ports
- > One nVidia nForce Pro 2200
- > One nVidia nForce Pro 2050
- > One Intel 82541PI Gigabit Ethernet55 Chipset

System Memory

- > Supports up to 256 GB Registered DDR-2 SDRAM
- > Total 32 DDR-2 DIMM sockets (four per CPU)
- > Supports 800MHz and 667MHz Memory

Integrated Hardware Monitor

- > CPU thermal and voltage monitor support
- > Fan status monitor

Systems Management (Optional):

- > HPC Systems Server Management Daughter card
- Supports IPMI 2.0 specifications

Storage:

- > Two SATA 2.0 or SAS HDD per system
- > One Slim CD / DVD-ROM drive

Chassis:

- > Workstation
- > 17" (H) x 8.7" (W) x 19" (D)

Power Supply:

- > 2000W PFC power supply

Front Panel:

- > Power, Reset, and System ID switch
- > One Power LED, Two LAN LED, One HDD LED, and One System ID LED
- > Two USB 2.0 ports

Rear Panel:

- > Two PS/2 ports
- > One VGA port
- > Two USB 2.0 ports
- > Three RJ45 Ethernet ports
- > Two DB9 Serial Port
- > One System ID LED
- > One Power Supply Fail LED

Operating System

- > Red Hat® Enterprise Linux® AS
- > SUSE LINUX Enterprise Server
- > Microsoft® Windows® Server Enterprise & Standard Editions
- > Sun® Solaris
- > CentOS

System Operating Environment:

- > Operating Temperature Range: 5 - 35°C
- > Non-Operating Temperature Range: -40 - +60°C
- > Humidity Range: 8 - 90% non-condensing

Service and Support:

- > Two years standard parts and labor warranty
- > Optional on-site maintenance and support services available

Great For

- > Enterprise Computing
 - Server Consolidation (Virtualization)
 - Business critical large databases and database applications (ERP, CRM, warehousing, analytics)
 - Business Integration Applications
 - UNIX migration
 - Digital Content creation
- > High Performance Computing
 - Scientific Computing
 - EDA
 - Forecasting and simulation – finance, weather
 - Oil & Gas
 - Animation and video rendering
 - CFD applications
 - MCAD & MCAE

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