

AMD Opteron™ Server

A5808 – 5U Eight Socket Server



A5808 – High Performance in a Box

The HPC A5808 is a maximum performance cutting edge compute system suitable for a wide variety of demanding work loads. This AMD Opteron based platform is ideal for large database, virtualization, and scientific computing workloads. When your applications require raw compute power bundled with enterprise class availability, stability and manageability – the A5808 fits the description perfectly

A5808 delivers on the promise of performance with the combination on the latest IO, network, memory, and power efficient technologies. A5808 features the latest Opteron microprocessors from AMD with DirectConnect technology, DDR2 memory, PCI-Express and SAS/SATA II storage.. It makes an ideal platform for a compute clusters, storage clusters, or stand-alone applications like anti-virus, database, media servers, and email



Highlights

- > Up to eight AMD Opteron 8000 series microprocessors with DirectConnect architecture
- > 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 16TB 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:

- > Eight hot-swap SATA 2.0 or SAS HDD per system
- > One 5.25" DVD-ROM drive
- > One 3.5" Floppy Disk Drive
- > Two available 5.25" drive bays for expansion)

Chassis:

- > 5U form factor (Rackmount or Pedestal)
- > 425mm x 220mm x 680mm
(W x H x D) 16.7" x 8.7" x 26.8" inches

Power Supply:

- > 1620W (3+1) hot-swap redundant 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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