

AMD Opteron™ Server

AW400 – Four Socket Workstation



Introducing the HPC Four Socket Opteron Workstation

The AW400 is capable of running your most demanding next generation CAD, DCC, and game development engines.

The AW400 has support for four sockets of the latest AMD Opteron™ CPU's and is loaded with up to 64GB of DDR2 memory. You can also choose to add terabytes of storage. This workstation also features two PCI Express x16 slots for SLI support and customer specified high definition audio. All of this in a very quiet package.



Highlights

- > Up to four AMD Opteron Series 8000 Processors
- > Supports dual-core processors providing up to 8 cores per system
- > Up to eight hot-swap SATA 2.0 or SAS hard disk drives
- > Supports up to 64GB of DDR2 ECC Registered memory
- > Two (2) PCI Express x16 Expansion Slots (x16 signal)
- > Two (2) PCI Express x16 Expansion Slots (x4 signal)
- > One (1) PCI 32bit Expansion Slots
- > 1620W (3+1) Hot-swap Redundant Power Supply

Processor

- > Supports Up to Four AMD Opteron™ 8000 series processors
- > AMD Opteron™ 8350 Quad-Core (2.0 GHz)
- > AMD Opteron™ 8347 Quad-Core (1.9 GHz)
- > AMD Opteron™ 8347HE Quad-Core (1.9 GHz) 65W
- > AMD Opteron™ 8346 Quad-Core (1.8 GHz)
- > AMD Opteron™ 8346HE Quad-Core (1.8 GHz) 65W
- > AMD Opteron™ 8224SE Dual-Core (3.2 GHz)
- > AMD Opteron™ 8222SE Dual-Core (3.0 GHz)
- > AMD Opteron™ 8222 Dual-Core (3.0 GHz)
- > AMD Opteron™ 8220SE Dual-Core (2.8 GHz)
- > AMD Opteron™ 8220 Dual-Core (2.8 GHz)
- > AMD Opteron™ 8218 Dual-Core (2.6 GHz)
- > AMD Opteron™ 8216 Dual-Core (2.4 GHz)
- > AMD Opteron™ 8214 Dual-Core (2.2 GHz)
- > AMD Opteron™ 8212 Dual-Core (2.0 GHz)

Chipset

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

Graphic

- > Onboard XGI XG20 16MB PCI graphics controller
- > Support for ATI Fire GL® or Radeon®
- > Support for nVidia Quadro® or GeForce® with SLI support

Expansion Slots

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

Networking

- > Total Three (3) Gigabit Ethernet Ports
- > One nVidia nForce Pro 2200
- > One nVidia nForce Pro 2050
- > One Intel 82541PI Gigabit Ethernet Controller

Integrated Hardware Monitor

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

System Memory

- > Supports up to 64GB Registered DDR2 SDRAM
- > Total 16 DDR2 DIMM sockets (four per CPU)
- > Supports 667MHz and 533MHz Memory

Systems Management (optional)

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

Storage

- > Eight hot-swap SATA 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

- > Tower or 4U Rackmount form factor
- > Hot-swap cooling fans
- > 427mm x 176mm x 700mm
(W x H x D) 16.8" x 6.9" x 27.5" inches (W x H x D)

Power Supply

- > 1140W (2+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

- > Animation & Rendering - Maya, Toon Boom Studio
- > Digital Forensics
- > CAD / CAM / CAE
- > Molecular Dynamics and other scientific visualization
- > CFD Applications - Oil & Gas, Vehicle Design, Air Flow
- > Digital Content Creation - Adobe, ULead etc.
- > EDA
- > 3D Modeling for Architects, planners, interior designers - Autodesk, 3D Home etc
- > Financial Simulations
 - Graphics & Visualization Clustering

HPC PROVIDES CUSTOM CONFIGURATION OPTIONS ON ALL MODELS

HPC Systems, Inc.

**48009, Fremont Blvd, Fremont, CA. 94538 (888) SALE-HPC
info@hpcsystems.com**

© Copyright 2007 HPC Systems, Inc.

HPC reserves the right to change specifications or other specifications without notice. This publication could include technical inaccuracies or typographical errors. All trademarks acknowledged