

AMD Opteron™ Server

A1403: 1U Four Socket Server



A1403 – Great Performance, High Density

The HPC A1403 is a high end high performance work horse for compute clusters, database clusters and digital content creation. This AMD Opteron based platform is an ideal choice for high density compute, visualization and GPU hybrid compute farms.

A1403 provides the best performance at a very affordable price with the combination on the latest IO, network, memory, and power efficient technologies. A1403 features the latest Opteron microprocessors from AMD with DirectConnect technology, DDR2 memory, PCI-Express and SAS/SATA storage. It makes an ideal platform for a large scale compute clusters, storage clusters, visualization clusters, or stand-alone applications like anti-virus and email.



Highlights

- > Up to Two AMD Opteron 8000 series microprocessors with DirectConnect architecture (Per Node)
- > Up to 256 GB of 800 MHz DDR2 memory (Per Node)
- > Unbeatable compute density
- > Integrated optional InfiniBand DDR port
- > Industry standard systems management with IPMI 2.0
- > One PCIe x16 expansion slot

Processor:

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

Chipset:

- > AMD 8132 PCI-X tunnel chip PCI-X Controller
- > NVIDIA nForce Professional 3600 PCI Express Controller and Southbridge I/O Hub

Graphic:

- > ATI® ES 1000 16MB PCI graphics controller

Expansion Slots:

- > One PCI Express x16 (x16 signal)
- > Optional HTX slot

Networking:

- > Two Gigabit Ethernet Ports
- > Intel 82546GB GbE controller

System Memory

- > Supports up to 256 GB Registered DDR2 SDRAM
- > Total 16 DDR-2 DIMM sockets (four per CPU)
- > Supports 800 MHz and 667 MHz Memory

Integrated Hardware Monitor

- > One SMSC SCH5017 and Two EMC6D103 Hardware Monitor IC
- > Supports LMSensors and Windows based hardware monitoring
- > Four 4-pin fan headers with smart FAN control
- > Two 3-pin fan headers support tachometer monitoring
- > Temperature & voltage monitoring
- > Watchdog timer support
- > Chassis intrusion detection

Systems Management (Optional):

- >HPC Systems Server Management Daughter card
 - Supports IPMI 2.0 specifications
- > Command Line Interface (CLI), Web Based, or Customized Remote Management Software
- > Virtual Media Over LAN (Virtual USB Floppy/CD and Drive Redirection)
- > LAN Alert-SNMP Trap
- > Event Log
- > Hardware Health Monitor
- > Remote Power Control
- > Support RMCP & RMCP + Protocols

Chassis:

- > 1U form factor
- > 483mm x 43mm x 705mm (W x H x D) 19" x 1.7" x 27.75"

Power Supply:

- >1000W high-efficiency power supply w/ PFC

Front Panel

- > Power and Reset switch
- > One Power LED, Two LAN LED, HDD LED, and CPU Overheat Warning LED

Rear Panel

- > Two PS/2 ports
- > One VGA port
- > Two USB 2.0 ports
- > Two RJ45 Ethernet ports
- > One DB9 Serial Port

System Operating Environment:

- >Operating Temperature Range: 10 - 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
 - Multimedia & digital media creation
 - Web applications
 - Database clusters
 - Web/Application Development
 - High Availability Clusters
 - Anti-Virus, E-mail
 - Storage Area Network / file systems
- > High Performance Computing
 - Visualization clusters
 - GPU hybrid clusters
 - Animation and viderendering
 - Scientific Computing
 - EDA
 - Forecasting and simulation – finance, weather
 - Oil & Gas
 - CFD applications
 - MCAD & MCAE

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