



# Xeon<sup>®</sup> Server

E1403: 1U Four Socket Intel<sup>®</sup> Multi-Core Server

## " Valued Performance"



The HPC E1403 is an entry-level high performance workhorse for space constrained, high density environments. This Intel Xeon (Six Core) based platform is an ideal choice for high density compute farms, email, application servers and directory services.

E1403 provides the best performance at a very affordable price with the combination on the latest IO, network, memory, and power efficient technologies. E1403 features the latest Xeon Nehalem quad core, six core microprocessors from Intel providing up to 24 cores per 1U, FB-DIMM memory, PCI-Express and SAS/SATA storage. It makes an ideal platform for a compute clusters, storage clusters, database applications, ERP, CRM appliances or stand-alone applications like anti-virus, database, media servers, and email.



## Highlights

- > Quad Intel<sup>®</sup> 64-bit Xeon<sup>®</sup> MP support 1066MHz FSB
- > 24 cores in 1U space
- > Up to 192GB DDR2 ECC FB-DIMM(Fully buffered DIMM)
- > 1x8(inx16)PCI-Express slot
- > Intel<sup>®</sup> 87575EB Dual-port Gigabit Ethernet controller
- > 3 Total hot-swap driver bays  
3x SATA drive support
- > ATI ES 1000 32MB PCI graphics controller

### Expansion Slots

- > 1x 8 PCI Express slot

### Networking:

- > Two Gigabit Ethernet Ports
- > Intel<sup>®</sup> 82575 dual-port Gigabit Controller

### Graphics:

- > ATI ES1000 graphics controller with 32MB

### Integrated Hardware Monitor:

- > CPU thermal and voltage monitor support
- > Supports Windows and Linux based hardware monitoring
- > 2-pin chassis intrusion header CPU thermal

### Processor:

- > Supports up to four Intel<sup>®</sup> 64bit Xeon<sup>®</sup> MP processor(s) of same type
- > 6-core Intel<sup>®</sup> Xeon<sup>®</sup> Processor 7400 sequence
- > Quad-core Intel<sup>®</sup> Xeon<sup>®</sup> Processor 7300 sequence
- > Dual-core Intel<sup>®</sup> Xeon<sup>®</sup> Processor 7200 sequence

### Chipset:

- > Intel<sup>®</sup> 7300 (Clarksboro) chipset

### System Memory:

- > Support up to 192GB 667/533MHz DDR2 ECC FB-DIMM memory
- > Quad branch memory bus
- > Memory Mirroring supported

### Systems Management (optional):

- > HPC Systems Server Management Daughter card Supports IPMI 2.0 specifications
- > Renesas H8S21 67 baseboard management controller (BMC)
- > O/S Independent Management
- > Block Transfer (BT), Keyboard Controller Style (KCS)
- > Serial Console over LAN, IPMI-over-LAN
- > Remote Sensor Monitoring, Fan Speed Control, Chassis Intrusion, and System Event Log (SEL)
- > Remote Power On/Off and Reset

### Storage:

- > Three hot-swap SATA 2 controller
- > RAID 0,1,5,10 support (Windows)
- > RAID 0,1,10 support (Linux)

### Chassis:

- > 1U form factor
- > 437 x 43 x 705 mm (W x H x D) 17.2" x 1.7" x 27.75" inches (W x H x D)

### Power Supply:

- > 1000W AC-DC high-efficiency PFC+PDB power supply

### Front Panel:

- > Power and Reset switch
- > Power LED, HDD LED, and LAN Activity LED
- System overheat LED

### Rear Panel:

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

### Operating System:

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

### System Operating Environment:

- > Operating Temperature Range: 0 - 35°C
- > Non-Operating Temperature Range: -50 - +60°C
- > Humidity Range: 5 - 90% non-condensing

### Service and Support:

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

### Ideal For:

- > High Availability Clusters
- > Anti-Virus
- > Network infrastructure services - E-mail, messaging and collaboration, directory services
- > Database clusters
- > ERP, CRM installations
- > High Performance Compute Clusters
- > Terminal services
- > CAD CAM Applications

## HPC Systems, Inc.

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