

NEXXUS4000®

engineered by VXTECH



Deskside Form Factor
8-Processors
(16 Cores)

Personal Cluster
for the HPC
Market



KEY FEATURES HIGHLIGHT

- More than 250 Gigaflops¹ of Computing Power
- Up to 128GB DDR2 533 or 667MHz
- Built in 8 or 16 Port Gigabit Switch (Optional 8 Port InfiniBand Switch)
- Up to 4TB of Storage
- Integrated KVM/USB Switch
- Low-Noise Operation
- Convenient Pedestal Form Factor
- Plugs into One Single 110/220V Outlet
- Scalable and Modular Design to Accommodate Future Processors or Interconnect Architecture

(1) Using Intel Quad-Core Processor (Available Q1-07)

DO MORE WITH LESS

For powerful servers that let you do more work on fewer systems, choose the Dual-Core Intel® Xeon® Processor in your NEXXUS 4000 Personal Cluster.

NEXXUS 4000® is a pedestal Personal Cluster for the High Performance Computing (HPC) market. This Intel® Xeon™ or Intel® Core™2 Duo Processors based cluster server is the ideal platform for clients who have technical or mission-critical applications that require high processor count and fast interconnect. Based on a pedestal design, the NEXXUS 4000® is an alternative to traditional datacenter centric solution. NEXXUS is a Personal Cluster system for IT or Research departments looking to leverage the benefits of Intel® standardization. With the flexibility to accommodate 8 Dual Core Intel® processors (16 Cores), the NEXXUS 4000® is the perfect answer to your increasing computing need.

 **VXTECH**
a division of ciara technologies

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PHYSICAL SPECIFICATIONS

Form Factor (H x W x D):	Deskside 22.5" x 13" x 30" Including Four (4) Compute Blades (see specifications below)
Enclosure Power:	110/220 volt single phase AC support
Chassis Rear Connector:	Video Output - USB connector - Keyboard, Mouse and USB device 1 x 10/100/1000 RJ45 port
Interconnect:	Standard 8 or 16-Port Gigabit Switch or Optional 8-Port SDR 4X InfiniBand Switch
Max Spec per Chassis:	8 Dual-core Intel® Processors (16 Cores Total) Up to 128GB ECC FBDIMMS DDR2 533/667MHz Memory Up to 4TB of Storage (8 x 500GB) Up to 150 Gigaflops of Processing Power (8 x Intel® Xeon® 5148) Gigabit Interconnect Bandwidth: Up to 32Gb/s InfiniBand Interconnect Bandwidth: Up to 160Gb/s

TECHNICAL SPECIFICATIONS

	NEXXUS 4820-PT	NEXXUS 4820-BB	NEXXUS 4820-AL
Motherboard:	Eight Intel® Server Board S3000PT1	Four Intel® Server Board SE7520BB2	Four Intel® Server Board SE5000AL
Processors:	Eight Dual-core Intel® Core™2 Duo Processors up to 2.4GHz (4MB Cache)	Eight Dual-core Intel® Xeon® LV 2.33GHz (2MB Cache)	Eight Dual-Core Intel® Xeon® LV 5148 2.33GHz (4MB Cache) XD, VT, EIST and Intel EM64T
Front Side Bus Speed:	1066MHz FSB	667MHz FSB, No Support of EM64T and HT	1333MHz Dual independent bus architecture
Memory:	32 DIMM sockets up to 64GB ECC or non-ECC DDR2 533 or 667MHz	32 DIMM sockets up to 64GB ECC Registered DDR2 400MHz	32 FBDIMM sockets up to 128GB ECC Registered DDR2 533 or 667MHz
Chipset:	Intel® E3000 chipset (Mukilteo2)	Intel® E7520 chipset	Intel® E5000 chipset
Gigabit Chipset:	Intel® Tekoa Gigabit Intel® 1000 Network Adapter	Integrated Intel® 82573E Gigabit Intel® 1000 Network Adapter	Integrated Intel® 82563EB Gigabit Intel® 1000 Network Adapter
Hardware Monitoring:	Intel® Active Management Technology for basic out of band management	Hardware Monitoring National Semiconductor PC87431M, Platform Instrumentation ASIC	Hardware Monitoring National Semiconductor PC87431M, Platform Instrumentation ASIC
Graphics:	ATI* ES1000 graphics controller with 16MB of video memory	ATI* RAGE* XL SVGA PCI with 8 MB of video memory	ATI* ES1000 graphics controller with 16MB of video memory
Storage:	8 Internal HDD: Serial ATA (80,120,160, 250, 300, 400 and 500GB)		
Interconnect:	Gigabit (Standard) or PCI/Express InfiniBand 4X SDR HCA Opt.)		
Management:	OS agent-based instrumentation		
Lead Free Compliance:	Compliance with European Union Lead-Free Directive 2002/95/EC, officially titled "The Restriction on the Use of Hazardous Substances (RoHS) in Electrical and Electronic Equipment"		
Ambiance Temperature:	Operating: 10°C to 35°C Non-operating/storage: -40°C to +70°C		
Relative Humidity:	Non-operating: 95% or non-condensing at 30°C		
OS Support:	Microsoft Windows Compute Cluster Server 2003 (Except NEXXUS 4820BB2) RedHat and SuSE Linux Operating system		
Applications:	CAD/MCAD (Dassault Solidworks, PTC Pro/Engineer/Autodesk Autocad) Oil and Gas (Schlumberger, Landmark Graphics) Simulation (Fluent, LS-DYNA, CD-Adapco)		



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For More Information:
Tel: (866) 789-7225