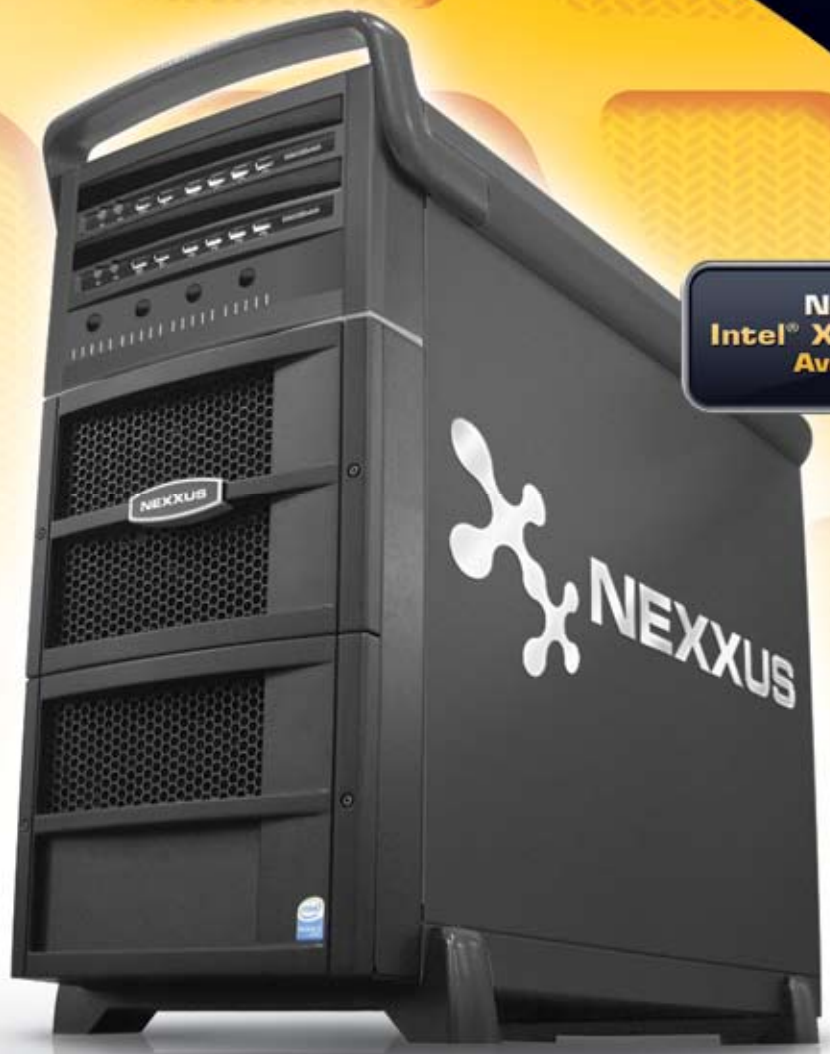
NEXXUS4000®

engineered by VXTECH

Deskside Form Factor
8-Processors
(up to 32 Cores)

Personal Cluster
for the HPC
Market



New 45 nm
Intel® Xeon® Processor
Available Now

intel
Xeon®
inside™
Quad-core.
Unmatched.

KEY FEATURES HIGHLIGHT

- More than 340 Gigaflops[1] of Computing Power
- Up to 128 GB DDR2 533 or 667 MHz
- Built in 8 or 16 Port Gigabit Switch (Optional 8 Port InfiniBand Switch)
- Up to 8 TB of Storage
- Integrated KVM/USB Switch
- Low-Noise Operation
- Convenient Pedestal Form Factor
- Plugs into One Single 110/220 V Outlet
- Scalable and Modular Design to Accommodate Future Processors or Interconnect Architecture

(1) Using Intel Quad-Core Processor

DO MORE WITH LESS

For powerful servers that let you do more work on fewer systems, choose the Quad-Core Intel® Xeon® Processor in your NEXXUS4000® Personal Cluster.

NEXXUS4000® 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 NEXXUS4000® 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 Quad Core Intel® processors (up to 32 Cores), the NEXXUS4000® is the perfect answer to your increasing computing need.

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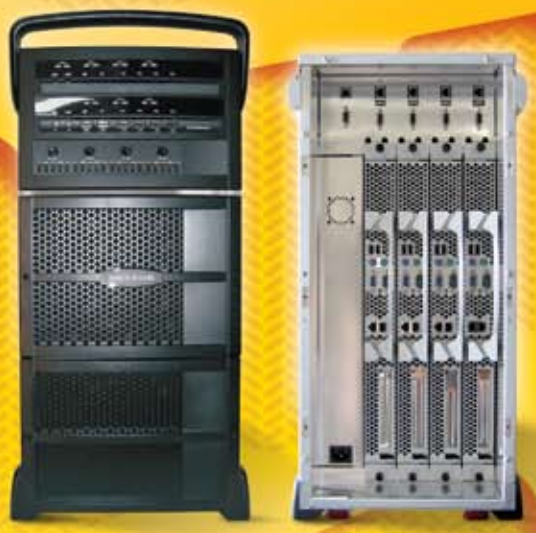

PHYSICAL SPECIFICATIONS

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 Quad-Core Intel® Processors (32 Cores Total) Up to 128 GB ECC FBDIMMS DDR2 533/667MHz Memory Up to 8 TB of Storage (8 x 1 TB) Up to 384 Gigaflops of Processing Power Gigabit Interconnect Bandwidth: Up to 32 Gb/s InfiniBand Interconnect Bandwidth: Up to 160 Gb/s

TECHNICAL SPECIFICATIONS

	NEW NEXXUS4080ML	NEXXUS4080AL
Motherboard	Eight Intel® Server Board X38ML	Four Intel® Server Board S5000XAL-R
Processors	Eight Intel® Xeon® Dual or Quad-Core Processors 3100/3200 Series - Up to 2.66GHz (8MB L2Cache)	Eight Intel® Xeon® Dual or Quad-Core Processors 5200/5400 Series - Up to 3.0GHz (12MB L2Cache)
Front Side Bus Speed	1333/1066MHz FSB	1333MHz Dual independent bus architecture
Memory	32 DIMM sockets (4DIMMS per board) up to 64GB ECC or non-ECC DDR2 667 or 800MHz	32 FBDIMM sockets up to 128GB ECC Registered DDR2 533 or 667MHz
Chipset	Intel® X38 chipset	Intel® E5000 chipset
Gigabit Chipset	Intel® Tekoa Gigabit Intel® 1000 Network Adapter	Integrated Intel® 82563EB Gigabit Intel® 1000 Network Adapter
Hardware Monitoring	IMPI 2.0 throught integrated BMC	Hardware Monitoring National Semiconductor PC87431M, Platform Instrumentation ASIC
Graphics	ATI* ES1000 graphics controller or Intel® Xeon® Processors Graphic Blade with PCI/E 16x available. Accepting any High-end Video Card (i.e. NVIDIA QFX5600)	
Storage	8 Internal HDD: Serial ATA (74 and 150BG - 10KRPM or 250, 500, 750GB and 1000GB - 7200RPM)	
I/O Expansion	One PCI Express 2.0 x 16 connector/x 16 lane	One PCI Express x8 connector/x8 lane
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, 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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