

VXB3000PT[®]

engineered by **VXTECH**

Energy-Efficient High-Density
Blade Servers Deliver
Industry Leading
Performance



KEY FEATURES HIGHLIGHT

- Dual or Quad-Core processing
- Intel® Core™ microarchitecture
- 1066 MHz system bus
- Up to 8GB of DDR2 533/667MHz
- Up to 768 Cores per Rack¹
- More than 7 TeraFlops per Rack²
- Intel® 64 Architecture

(1) Using Intel® Xeon® X3200 sequence

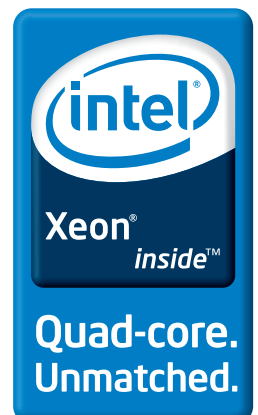
(2) Processing Power Maximum using Intel® Xeon® X3220 in a full VXR-96

FAST BY DESIGN

With the introduction of more powerful multi-core processors and the move towards clustering, high-performance computing (HPC) is expanding from large-scale computing machines toward workgroups and departmental clusters in many research and science industries. Breakthroughs in absolute performance and price/performance have made it possible for single processor platforms to enter new, low-end HPC applications.

The VXB-3000PT is purpose-built for high performance and high density computing. The small form factor enables double the density of traditional server boards and the support for the new Intel® Xeon® processor 3000 sequence ensures industry-leading performance-per-Watt.

 **VXTECH**
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FEATURES & BENEFITS

Intel[®] Core™2 Duo or Intel[®] Xeon[®] Processors
Improved performance for entry-level server applications

Intel[®] E3000 Server Chipset
Enterprise-class reliability and availability

Dual-Channel Memory with Support for Up to 8GB of Unbuffered ECC DDR2 533/667 SDRAM through 4 DIMM Sockets
Highly reliable and powerful memory subsystem with automatic correction of single-bit errors, which may improve system uptime

Dual Intel[®] Gigabit Ethernet Connections
Ample network bandwidth with options for separate subnets to simplify network setup and troubleshooting or redundant links to improve reliability

Support for Intel[®] Active Management Technology
Basic out-of-band capabilities for monitoring hardware and software status regardless of OS or power state



BLADE SPECIFICATIONS

VXB3000PT

Form Factor	Vertically mounted server (18" H x 1.75" W x 18" D), Up to 96 Servers, 192 Processors and 768 Cores per Rack (VXR-96)
Motherboard	Two (2) Motherboard Intel [®] S3000PT1
Processor	Two (2) Intel [®] Xeon [®] 3000/3200 Sequence Processors
Front Side Bus Speed	1066MHz
Memory	Eight (8 - 2x4) DIMM sockets for up to 16GB (2 x 8GB) of ECC DDR2 533/667 memory
Chipset	Chipset Intel [®] E3000 Chipset (Mukilteo2)
Network Connections	Four (2 x 2) Integrated Intel [®] Gigabit Ethernet controller 82573E / 82573V supporting 1000BASE-T
Integrated Management	Intel [®] Active Management Technology (Intel [®] AMT)
Graphics	ATI [*] ES1000 16MB video
Hard Disk Drive Support	Two (2) SATA 2.5"
Hard Disk Drive Capacity	80, 120, 200GB, SATA
I/O Slots	2 PCI Express* bus x8 1 Intel [®] I/O Expansion Module slot (PCI Express based)
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: 10C to 35C, Non-operating/storage: - 40C to +70C
Relative Humidity	Non-operating: 95% or non-condensing at 30C
OS Support	Microsoft Windows Server 2003 and Compute Cluster Server 2003, RedHat and SuSE Linux Operating system



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