

FUSION1200®

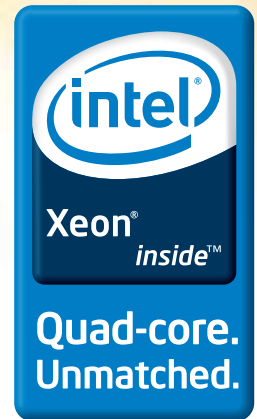
engineered by VXTECH



Scalable 12-processors
SMP system (48 cores)

Shared-memory
system for the
HPC market

New 45 nm
Intel® Xeon® Processor
Available Now



vSMPowered™
scalable systems by ScaleMP™

KEY FEATURES HIGHLIGHT

- More than 576 GigaFLOPS¹ of Computing Power per Chassis
- Up to 192GB per Chassis
- Up to 6TB of Storage
- Low-Noise Operation
- Available in both Pedestal and Rackmount Form Factor
- Scalable and Modular Design to Accommodate System Expansion and Future Processors
- Expandable up to 32 Processors, 512GB RAM, more than 1.5TeraFLOPS
- Supported by Standard Linux Distributions

(1) Using Intel Quad-Core processor

Prepare to be amazed by the new FUSION1200® SMP server and its groundbreaking performance. Leave costly, proprietary RISC-based solutions behind and enjoy ease of operation and superior performance based on Quad-Core Intel® Xeon® processors.

FUSION1200® is a scalable 12-processor SMP system for the High Performance Technical Computing (HPTC) market. Available in both desktop and 19-inch rack-mount design, the FUSION1200® is a scalable alternative to traditional RISC based servers. FUSION1200® Series is an enterprise-class system for an IT department looking to leverage the benefits of Intel® standards in a data center. With the flexibility to grow from 8 to 32 Intel® Xeon® processors (dual or quad core), the FUSION1200® Series scales beyond conventional Intel® based platforms while delivering superior price-performance compared to traditional high-end servers. The SMP operational model of the FUSION1200® provides reduced management costs compared to clusters. This Intel® Xeon® processor based server, supporting Intel® Extended Memory 64 Technology and the ScaleMP® vSMP architecture, is the ideal platform for clients with applications that require high processor count and large shared memory.

 **VXTECH**
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SYSTEM SPECIFICATIONS

Form Factor (W x D x H)	Deskside: 12.25" (W) x 30" (D) x 17.5" (H) Rackmount: 17.5" (W) x 30" (D) x 12.25" (H)
Enclosure Power	110/220 volt single-phase AC support (20 Amp)
Chassis rear	Video, keyboard, mouse, serial 7 x 10/100/1000 Ethernet port 2 x Chassis expansion port
Chassis front	USB, DVDROM
Architecture	ScaleMP® versatile SMP(vSMP)
Max Spec per Chassis	12 Intel® Xeon® Processors (Dual-Core or Quad-Core) Up to 192GB ECC FBDIMM DDR2 667MHz memory Up to 6TB of storage (6 x 1000GB) Up to 576(1) GigaFLOPS of processing power (1) Using 12 x Quad-Core Intel® Xeon® Processor 5450

CONFIGURATIONS

	Entry-Level System	Mid-Range System	High-End System
Processors	Dual-Core Intel® Xeon® processors 5100 series		Dual-Core and Quad-Core Intel® Xeon® processors 5100, 5200, 5300 or 5400* series
Number of Processors	8	8 to 12	24 to 32
Memory	Up to 32 DDR2 FBDIMM memory modules 32GB to 128GB DDR2 667 MHz FBDIMM memory	Up to 48 DDR2 FBDIMM memory modules 48GB to 192GB DDR2 667 MHz FBDIMM memory	Up to 128 DDR2 FBDIMM memory modules 96GB to 512GB DDR2 667 MHz FBDIMM memory
System Cache	Minimum of 10% of RAM reserved for system cache		
Architecture	ScaleMP™ versatile SMP (vSMP)		
Chipset	Intel® 5000X		
Network	5 x Gigabit Ethernet	7 x Gigabit Ethernet	17 x Gigabit Ethernet
Internal Drives	7,200RPM drives: 320GB, 400GB, 500GB, 750GB and 1000GB 10,000RPM drives: 74GB, 150GB		
Number of Internal Drives	4	Up to 6	16
I/O Expansion	2 x eSATAports one PCI/Express 8x expansion port		6 x eSATAports 3 x PCI/Express 8x expansion port
System Expansion	2 chassis expansion ports		
Form-Factor	Desk-side or Rack-mount	Rack-mount	
Lead Free Compliance	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"		
Ambient 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	Red Hat and SUSE standard Linux distributions. Optional highly-tuned Linux kernel provided.		
Applications	Computational Structural Mechanics: ANSYS Mechanical, ABAQUS/Explicit, ABAQUS/Standard, LSTC LS-DYNA Computational Fluid Dynamics: Fluent, ANSYS, CFX, CD-Adapco STAR-CD, AVLFIRE Computational Chemistry: Schrödinger Jaguar, Schrödinger Glide, NAMD, DOC, GAMESS, GOLD Bio-Informatics: HMMER Oil & Gas: Schlumberger ECLIPSE, Paradigm GeoDept, 3DGeo 3DPSDM		

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