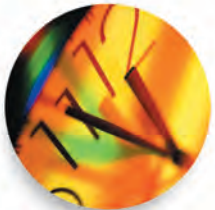


Stratus ftServer 4500 System



Total Availability

The fifth generation Stratus® ftServer® 4500 system brings leading scalability/performance and premier continuous availability to a mid-range server designed for data centers and lights-out settings where agility and business continuity is essential. Delivering 99.999% and greater uptime, this modular server harnesses the quad-core Intel® Xeon® processor and new Intel QuickPath Architecture to achieve high-performance processing power in a flexible 1- or 2-socket system.

The ftServer 4500 brings businesses a powerful solution for Microsoft® Windows Server® 2008 computing environments. Customers will find the ftServer 4500 architecture ideal for supporting business processing solutions that include: ATM/POS, computer-aided dispatch (CAD), hospital information systems (HIS), cloud computing, manufacturing execution systems and server virtualization.

The versatility of the 4500 model reflects significant design improvements in the physical chassis that enable increased use of modular, industry-standard components. The system leverages Intel QuickPath Technology which incorporates integrated, high-speed memory controllers and interconnects that boost system performance, bandwidth and reliability. These physical design improvements are further enhanced by the availability, performance, and security features offered by the Microsoft® Windows Server™ 2008 operating system.

Continuous Processing features

Like other members of the industry-standard ftServer family, the model 4500 comes complete with Stratus Continuous Processing® features that eliminate operational complexity and high costs inherent in clusters. Your enterprise gains superior uptime protection without having to modify applications — and without the need for failover scripting, repeated test procedures, or extra effort to make applications cluster-aware.



Operational Simplicity



Financial Advantage



Lockstep technology

Replicated, fault-tolerant hardware components process the same instructions at the same time. In the event of a component malfunction, the partner component is an active spare that continues normal operation. There is no system downtime and no data loss.

Failsafe software

Our failsafe software works in concert with lockstep technology to prevent many software errors from escalating into outages. Other software issues are captured, analyzed, and reported to Stratus. This allows support personnel to take a proactive approach to correcting software problems before they recur. Even in-memory data is constantly protected and maintained. Stratus' hardened device drivers add yet another level of reliability to the operating system environment on ftServer systems.

ActiveService architecture

ftServer systems constantly monitor their own operation. Remote support capabilities—made possible by the global Stratus ActiveService™ Network — enable our service engineers to diagnose, troubleshoot, and resolve problems online as if they were on-site. If needed, the 4500 system automatically orders its own customer- or field-replaceable parts.



ftServer systems are for organizations with mission-critical applications that must always be protected against downtime and data loss. The ftServer 4500 delivers continuous application availability using purpose-built fault-tolerant hardware, failsafe software and customer care services that together provide a complete solution unmatched by competitors' availability offerings.



The Smarter Approach to Uptime™

The ftServer 4500 system redefines scalability for fault-tolerant departmental business processing. This mid-range server taps the power of Intel's advanced quad-core technology and Intel QuickPath Architecture.



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ftServer 4500 system specifications

PROCESSORS	
Logical processors	2 sockets (per CRU)
Processor	Intel® Xeon® processor E5504, 2.0 GHz
Cores	4 (per processor)
L2 cache	4 MB
Intel QPI speed	4.8 GT/s
Maximum memory bandwidth	38.4 GB/s
MEMORY	
1-processor system	
Min/max memory	4 GB/48 GB DDR3; 800 MHz DIMM
DiMM slots	12 (6 per CRU)
2-processor system	
Min/max memory	8 GB/96 GB DDR3; 800 MHz DIMM
DiMM slots	24 (12 per CRU)
I/O SUBSYSTEM	
Integrated PCI adapter slots	4 PCI-Express (2 per CRU)
Optional PCI-adapter slots	4 PCI-Express (Gen 2) or 4 PCI-X
STORAGE SUBSYSTEM	
Internal system drive bays	16 SAS 2.5" (8 per CRU)
Internal SAS disk drives supported	15 K (73 GB, 146 GB); 7.2 K (500 GB)
ftSCALABLE STORAGE SUBSYSTEM	
Expansion drive slots (RAID)	36
RAID Levels	0, 1, 3, 5, 6, 10, 50
EMBEDDED I/O	
10/100/1000 Ethernet ports	4 (2 per CRU)
10/100 Management Ethernet ports	2 (1 per CRU)
DVD-R/W	1
Serial (com) ports	2 (9-pin ports per system)
USB 2.0 ports	4 (3 on rear, 1 on front per system)
MANAGEABILITY	
Baseboard management controller	standard
Integrated Virtual Technician Module (VTM)	standard
Graphics adapter	1 VGA port per system
ActiveService modem	1 on rear panel (optional)
PCI ADAPTERS	
1000 Base-T/SX dual-port Ethernet	up to 8 optional (4 per CRU)
SAS 8-port host bus adapter for tape	up to 1 optional (non-redundant)
Fibre Channel for external storage	up to 2 optional (1 per CRU)
SERVICEABILITY	
Hot-swappable components	CPU / I/O module, disks
OPERATING SYSTEM	
Microsoft Windows®	Windows Server 2008 Enterprise Edition
POWER AND PACKAGING	
Input voltage	Rack: 100-127, 200-240 VAC; 50 Hz, 60 Hz
Rack system dimension (H x W x D)	7.0" (4U) x 17.5" x 30.1" with bezel and modem
Weight (fully loaded including rails)	Rack: 54.43 kg (120 lbs.)

Specifications and descriptions are summary in nature and subject to change without notice.

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