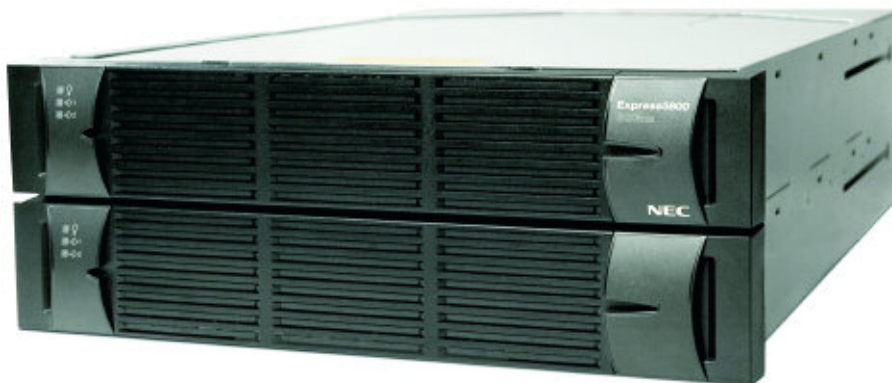


NEC EXPRESS5800/320Ma FAULT TOLERANT SERVER

NEC Express5800/320Ma Fault Tolerant Server

Full fault tolerance for your enterprise applications

- Up to 99.999% continuous uptime
- Dual Intel® Xeon™ CPUs
- High ROI and low TCO
- 100% redundant and hot-swappable hardware modules



Empowered by Innovation

NEC

NEC Fault Tolerant servers are faster, cheaper and safer for your business

The Express5800/320Ma Fault Tolerant (FT) server delivers high-performance and added protection against downtime caused by hardware or software failure. Small and medium enterprises running mission-critical Microsoft® Windows® applications will benefit from high performance Intel Xeon processors, while achieving up to 99.999% continuous availability, all with a low price and high return on investment. NEC's FT servers meet even the most demanding server requirements, delivering maximum speed, storage capacity, and uptime.

HIGH SPEED PROCESSING

The NEC Express5800/320Ma is a high-performance server option for small or medium-sized enterprises with demanding, mission-critical applications. The Express5800/320Ma features fast processing speeds with dual Intel Xeon CPUs (3.2Ghz, 3.6Ghz, or 2.8Ghz dual-core) and high availability software with NEC ExpressCluster Self Recovery Edition. Designed with Dual Modular Redundancy (DMR), the NEC Express5800/320Ma FT servers feature dual Hyper-Threading enabled Intel® Xeon® processors, meaning data instructions are handled in parallel instead of sequentially, thus accommodating heavy workloads and delivering greater overall performance.

HIGH AVAILABILITY FAULT TOLERANT TECHNOLOGY

In many industries, the cost of a single hour of downtime eliminated over the lifespan of the server could pay for the server itself. By using fully redundant and hot-swappable hardware components operating in lockstep across two server modules, the Express5800/320Ma achieves up to 99.999% continuous uptime. In the event that a hardware component fails, the active spare components continue functioning, allowing for repair of the affected module without interrupting server operations. Since failover is virtually instantaneous, and there is no single point of failure, downtime is nearly eliminated. Additionally, because the Express5800/320Ma is a hardware-

based fault-tolerant solution, there is no performance penalty for fault tolerance, and no complex software setup unlike software-based solutions.

INCREASED APPLICATION MONITORING

NEC ExpressCluster® Self Recovery Edition (SRE) software, included with the Express5800/320Ma, monitors the performance of application processes. In the event of application failure, SRE will restart applications as necessary, or restart the server after a customer-specified number of attempts.

SIMPLE SET-UP AND MANAGEMENT

Out-of-band, lights-out remote management capability is built into the Express5800/320Ma with the new Virtual Technician Module daughter card. Included is the NEC installation software for easy setup and system management, as well as NEC remote monitoring and management software. Microsoft certified drivers are included which support duplex and hot-swap operations and provide diagnostic capabilities.

APPLY SOFTWARE UPDATES WITHOUT GOING OFFLINE

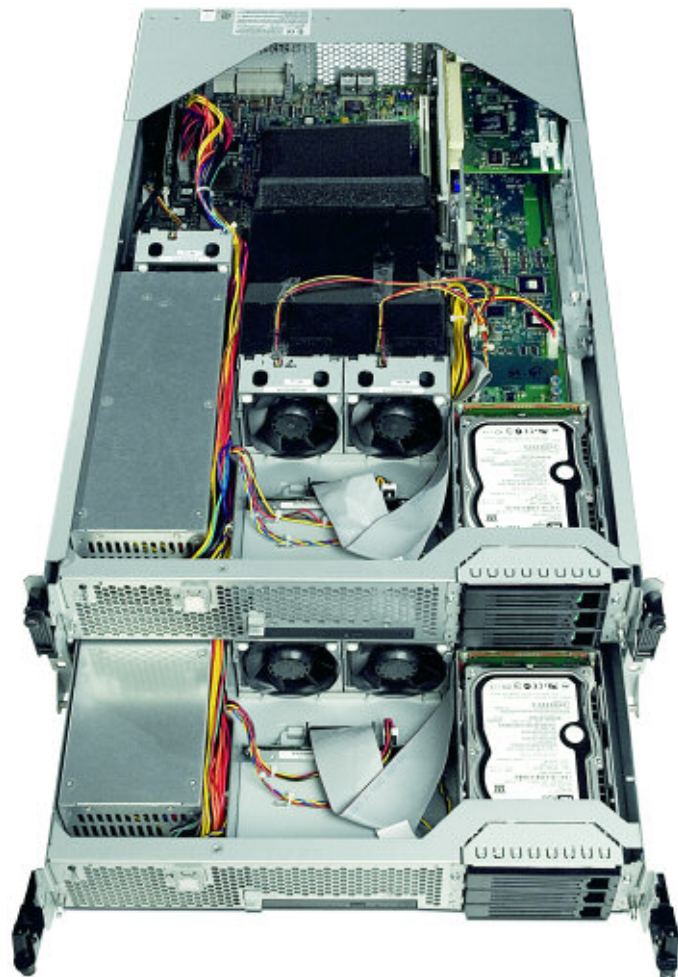
ActiveUpgrade, available with the Express5800/320Ma, allows software updates and upgrades to be applied without interruption of service. One module can be administered offline while the second module continues to handle the operational load. When updates are completed, the two modules synchronize data and



return to full redundant operation. A rollback feature is integrated into ActiveUpgrade in order to return the server to its previous state in the event that a software update causes a problem.

EFFICIENT DESIGN SAVES SPACE AND TIME

In a standard 19-inch rack, the Express5800/320Ma takes up only 4U of rack space, accommodating space constraints while providing an all-hardware, single-server solution with automatic restart and full fault tolerance. An optional tower case is also available for an even smaller footprint if rack-mounting is not necessary. As an all-in-one solution with management and installation software, the Express5800/320Ma reduces the high support and maintenance costs typically associated with multiple-server solutions and cluster configurations.



AMPLE INTERNAL AND EXTERNAL STORAGE CAPACITY

The Express5800/320Ma provides ample storage internally with three logical SATA drive bays for a combined maximum capacity of 1.2TB (with the use of 400GB hard disk drives). If more space is required, the Express5800/320Ma supports connection to a variety of storage options from NEC and other leading storage providers. The NEC S2800 provides up to 55TB of storage and 16GB of cache over 8 fibre channel ports, as well as RAID6 double-parity technology for greater reliability and performance.

Key Features

- Single copy of Microsoft Windows Server® 2003 Enterprise Edition
- Dual logical 3.2GHz, 3.6GHz, or Dual-Core 2.8GHz Intel Xeon processors for high-speed performance
- Application monitoring and automatic restarting via ExpressCluster SRE
- Full compatibility with most Windows applications
- Remote monitoring and management software included
- Compact 4U footprint saves space in either rackmount or tower configuration
- Internal support for up to 1.2TB of enterprise class SATA storage
- Affordable for small to medium enterprises, providing higher return on investment and lower total cost of ownership versus software based clusters.
- Disaster recovery between FT servers over LAN or WAN
- Simple setup and configuration
- Up to 99.999% application uptime

NEC Express5800/320Ma Specifications

	3.2GHz	3.6GHz	2.8GHz Dual-Core
System Form Factor	7.0" (4U) x 17.75" (19" including rack rails) x 30"		
Logical Processors	2-way SMP Intel Xeon 3.2GHz	2-way SMP Intel Xeon 3.6GHz	2-way SMP Intel Xeon 2.8 GHz dual-core
Cache	1MB iL2	2MB iL2	
Front Side Bus	800MHz		
Max Memory	8GB ECC SDRAM, 8 DIMM slots	16GB ECC SDRAM, 8 DIMM slots	
User PCI Slots Total	1 x 64/100MHz PCI-X	3 x 64/100MHz PCI-X	
Internal Storage	Up to 3 x 400GB SATA maximum		
External Storage	EMC, NEC Storage		
Systems Management	Virtual Technician Module optional		
Integrated Ethernet	Dual 10/100/1000Mb		
CD-Rom	1x Read/Write CD/DVD		
Video	CT69000 w/2MB VRAM		
External I/O Ports	3 x USB 2.0, 2 serial		
Operating System	Windows Server 2003 Enterprise Edition		
Power Supply	110/240 VAC, 50/60Hz, integrated into each module		
Weight	Rack: 56.16 Kg (123.8 lbs.) including rails. Pedestal: 80.7 Kg (178 lbs.)		
Warranty	One year limited hardware warranty		

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