

EXPRESS5800/320F

NEXT-GENERATION FAULT TOLERANT SERVER



Servers for Mission Critical Applications

NEC Fault Tolerant (FT) servers provide an innovative solution to address planned and unplanned downtime for mission-critical IT infrastructure worldwide. The Express5800/320F server delivers exceptional uptime through dual modular hardware redundancy featuring Quad-Core Intel® Xeon® processors. These servers provide high availability through hardware redundancy in all components: CPU, memory, I/O, hard disk drives, and cooling fans.

The heart of this dual modular architecture is the GeminiEngine™ chipset, which is designed to enable “lockstep” processing. Lockstep enables the processing of the operating system and application software on both modules concurrently, eliminating potential downtime if a hardware component fails on either module.

Key Benefits

- » Continuous availability for 99.999% system uptime
- » Affordable fault tolerance using Intel Xeon based technology
- » Hardware redundancy of all components

Enhanced Processing Performance

The Express5800/320F FT server features Quad-Core Intel Xeon processors, achieving a 20% performance gain over existing fault tolerant servers.

Virtualization Operating System Support

Virtualization software support allows for multiple guest operating systems to run in a single physical server, simplifying server consolidation and migration. Application failure risk may increase in virtual environments if the server hardware fails, because all of the applications in the virtual environment will be affected. With Fault Tolerant servers and their redundant modular architecture, the risk of these applications going down is eliminated due to the server’s continuous computing capability.

Reduction in Maintenance Time

The optional Active Upgrade™ splits the FT server into two independently running systems and allows one of the systems to run critical applications without interruption while Windows security patches and program updates are being installed on the other system.

Logical Processor	Processor	320F-MR Intel® Xeon® E5450-3.00GHz	320F-LR Intel Xeon E5405-2.00GHz
	FSB	1333MHz	
	Package	LGA771	
	L2 cache	6MB x2	
	Chipset	Intel 5000X Chipset + ESB2M + NEC FCPGA	
Logical Memory	Type	DDR2-667 FB-DIMM	
	Support DIMM	2x 1GB, 2x 2GB, 2x 4GB	
	Sockets	6	
	Max	24GB (6x 4GB)	
	ECC	Supported	
	Chipkill	Supported	
Logical Hard Drive	Type	3.5" SAS	
	Supported drives	SAS 15k: 73GB, 146GB, 300GB	
	Max	SAS: 3x 300GB (RAID-1)	
	SPAN	Optional	
Logical LAN	Channel	2x 1000BASE-T	
	Controller	ESB2	
	Wake On LAN	Supported	
	AFT	Supported	
	PXE boot	Supported	
Video	Controller	ATI ES1000	
	VRAM	32MB	
	Resolution	640x480 - 1280x1024	
Peripherals	Optical disk	Slim CD-RW/DVD Combo or DVD-RAM	
	Floppy disk	Optional (USB Floppy)	
Logical I/O Slot	PCI-X	1x 64 bit/133 MHz (MD2)	
		1x 64 bit/133 MHz (FH/FL)	
	PCI-e	1x 8 lane slot	
	Hot-plug	-	

External Interface	LAN	4x RJ-45
	USB2.0	3x Type A
	Serial	2x D-Sub 9pin
	Management	Optional (2x RJ-45)
Device Bay	3.5 INCH H/S	6x 1 INCH height
	5 INCH SLIM	2
Logical Storage I/F	SAS/SATA	8(2x 4i)x SAS or 4(1x 4i)x SATA II/300
	IDE	1x UATA
Management	Baseboard	Integrated
	Remote	Optional F-RMC
Serviceability	Hot-swappable components	CPU/IO Module, Hard drive
Security	Security key	Front Key
	Chassis	Type
Power Supply	Dimension	483 mm (W) x 762 mm (H) x 178 mm (D)
	Type	650 W x 2
LED	Input	100-240 VAC, 50/60 Hz
	Front	Power, Disk Act., FT-Status, System-Status, Express Scope Monitor
Switch	Rear	LAN Speed*, LAN Act.*
	Front	Power
Regulatory	Rear	Dump(NMI)
		Refer Section 4.5.2
Supported OS		Windows® 2003 Server® R2 EE Windows 2008 Server EE (planned) Red Hat™ Linux™ 5.2 Advanced Platform (EM64T) VMware® ESX 3.02ft VMware™ ESX 3.2S (Special version for Fault Tolerant Servers)



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