

Fault Tolerant Server

NEC Express5800/R320f



Key Feature

- Fault Tolerant technology based on GeminiArchitecture™
- Support for the latest Intel® Xeon E5-2600 v4 product family
- Up to 512GB of high speed DDR4 memory
- Full manageability with integrated EXPRESSSCOPE Engine 3
- Support for high ambient temperature operation up to 40°C (104°F)

Overview

The Express5800/R320f is a dual-socket fault tolerant server developed with Intel's latest Xeon processors. The R320f provides exceptional high availability, affordability, and operational simplicity through its fully redundant modular hardware design featuring high-performance

processors. NEC Fault Tolerant (FT) servers provide an innovative solution to address planned and unplanned downtime for your most important applications.

Features

Highest Levels of Availability for Mission Critical Applications

NEC Fault Tolerant (FT) servers provide an innovative solution to address planned and unplanned downtime for your most important applications. The Express5800/R320f servers deliver continuous availability for 99.999% system uptime (5 minutes of downtime per year) through its fully redundant modular hardware featuring 14-Core Intel® Xeon® processors that support lockstep operation.

Perfect For Virtualization

The NEC FT servers can deliver continuous availability for VMware and Hyper-V by using internal storage and standard management software. Advantages of virtualization with the NEC FT server include proven scalable vCPU performance, integrated high availability storage for CapEX savings, and simplified virtualization deployment for CapEX and OpEx savings.

Simplified Manageability

The Dual Modular Redundant (DMR) design allows easy replacement of major subsystems without shutting down the system, by supporting hot plug of modules. The Customer Replaceable Unit (CRU) is easily replaceable without any special skills. Also, integrated EXPRESSSCOPE Engine 3 technology provides extensive remote management capabilities regardless of the status of the server's power or operating system.

Hardware Specifications

MODEL	NEC Express5800/R320f-E4	NEC Express5800/R320f-M4
Form factor / height	4U Rack	
Number of processors	1 to 2	
Processors	Intel® Xeon® Processor E5-2630 v4 (2.20 GHz/10-core/25 MB)	Intel® Xeon® Processor E5-2671 v4 (2.30 GHz/14-core/35 MB)
Memory type	DDR4-2400 ECC RDIMM	
Memory clock	2133 MHz	
Logical memory slots	16	
Maximum logical memory	512 GB	
Storage type	Hot plug 2.5-inch SAS HDD Hot plug 2.5-inch SAS SSD	
Logical internal drive bays	8	
Maximum logical internal storage	9.6 TB	
Optical drive	DVD Super Multi Drive	
Expansion slots	2 Low-profile PCIe x4 Gen 3	2 Low-profile PCIe x4 Gen 3 2 Full-height PCIe x8 Gen 3
Video (VRAM)	Integrated in the server management controller (32 MB)	
Logical network	2 1000BASE-T plus 1 100BASE-TX for management	2 10GBASE-T, 2 1000BASE-T plus 1 100BASE-TX for management
Power supplies	800 Watt (1 per module, 80 PLUS® Platinum certified)	
Systems management	EXPRESSSCOPE Engine 3	
Interface	1 VGA, 4 USB 2.0, 4 LAN (2 per module), 2 management LAN (1 per module), 2 or 4 optional USB 3.0 (2 per module) <small>* The USB 3.0 connectors are not available for VMware ESXi.</small>	1 VGA, 4 USB 2.0, 8 LAN (4 per module), 2 management LAN (1 per module), 2 or 4 optional USB 3.0 (2 per module) <small>* The USB 3.0 connectors are not available for VMware ESXi.</small>
Dimensions (W x D x H) and maximum weight	483 x 734 x 176 mm / 19.0 x 28.9 x 6.9 in 51 kg / 112.44 lbs.	
Temperature and humidity conditions (non-condensing)	Operating: 10 to 40 °C/ 50 to 104 °F , 20 to 80% Non-operating: -10 to 55°C/14 to 131°F, 20 to 80%	
Operating systems and virtualization software	Microsoft® Windows Server® 2012 R2 Standard Microsoft® Windows Server® 2012 R2 Datacenter Microsoft® Windows Server® 2016 Standard Microsoft® Windows Server® 2016 Datacenter VMware® ESXi 6.5	

For further information please contact your local NEC representative or:

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