

The high-capacity rack server

NEC Express5800/R120f-2E (Storage-Rich)



Key Features

- Support for the latest Intel® Xeon E5-2600 v3 product family
- Improved memory and storage capacity in a 2U compact chassis
- Agent-less management with improved EXPRESSCOPE Engine 3
- Support for high ambient temperature operation up to 40° C (104° F)

Overview

The Express5800/R120f-2E, a cost-effective dual-socket 2U rack server, is a right-sized server with the performance, expandability, and reliability to meet the requirements of storage-intensive workloads. Combining the new high-performance and energy

efficient Intel Xeon E5-2600 v3 product family, large memory and storage capacity, and high performance RAID controller supporting large cache memory and 12 Gbps SAS interface, the R120f-2E is suitable for network attached storage and data backup servers.

Features

Perfect Fit for Your Storage Needs

To meet the current data growth, data centers need cost-effective storage solutions that provide superior expandability, performance, and data protection features. With up to two 10-core Xeon E5-2600 v3 processors, 16 DIMMs for DDR4-2133 memory, a choice of 24 2.5-inch drives or 12 3.5-inch drives, and various redundant capabilities, the R120f-2E delivers the optimal balance of performance and features to meet your storage needs.

Expandability for Data Growth

The Express5800/R120f-2E offers superior expandability to keep pace with your data growth. With two integrated gigabit NICs, four PCIe Gen3 and one PCIe Gen2 slots, up to 512 GB of memory capacity, 76 TB of storage capacity, and redundant storage options, the R120f-2E offers flexible network connectivity, superior storage expandability, and secure data protection.

Cost Savings Through Efficiency

The Express5800/R120f-2E offers solutions to reduce energy and IT management costs. Combining ambient temperature operation up to 40° C (104° F), intelligent cooling technology, redundant power supplies with cold-standby mode, and 92 percent energy efficiency, the R120f-2E helps reduce energy costs. The remote KVM feature minimizes time and effort of administrators by allowing operation from a web-based console. The agent-less remote monitoring feature minimizes extra effort of administrators by providing notification of predictive failures directly via SNMP and e-mail regardless of server status.

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HARDWARE SPECIFICATIONS

MODEL	NEC Express5800/R120f-2E
Form factor / height	2U Rack
Number of processors	1 to 2
Processors	Intel® Xeon® Processor E5-2603 v3 (1.60 GHz/6-core/15 MB) * Intel® Xeon® Processor E5-2620 v3 (2.40 GHz/6-core/15 MB) Intel® Xeon® Processor E5-2640 v3 (2.60 GHz/8-core/20 MB) Intel® Xeon® Processor E5-2660 v3 (2.60 GHz/10-core/25 MB) ** * Supported on only 3.5-inch drive model ** Supported on only 2.5-inch drive model
Memory type	DDR4-2133 ECC RDIMM DDR4-2133 ECC LRDIMM
Memory slots	16
Maximum memory	512 GB
Storage type	Hot plug 2.5-inch SAS HDD Hot plug 2.5-inch SATA HDD Hot plug 2.5-inch SAS SSD Hot plug 2.5-inch SATA SSD Hot plug 3.5-inch SATA HDD
Maximum internal drive bays	16 to 26 2.5-inch with optional drive cage 12 3.5-inch plus 2 2.5-inch with optional 2.5-inch drive cage
Maximum internal storage	76 TB
Removable media	-
Expansion slots	2 PCIe x16 Gen 3 2 PCIe x8 Gen 3 1 PCIe x4 Gen 2
Video (VRAM)	Integrated in the server management controller (32 MB)
Network	2 1000BASE-T plus 1 1000BASE-T for management
Redundant power supply	Optional, hot plug
Redundant cooling fan	Optional, hot plug
Power supplies	800 Watt
Systems management	EXPRESSSCOPE Engine 3
Interface	1 VGA, 1 to 2 serial, 4 USB 3.0 (plus 1 internal), 2 USB 2.0, 2 LAN, 1 management LAN
Dimensions (W x D x H) and maximum weight	448.0 x 683.8 x 87.2 mm / 17.6 x 26.9 x 3.4 in 31 kg / 68.34 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% * In specific configurations, the operable ambient temperature is up to 35°C/95°F
Operating systems and virtualization software	Microsoft® Windows Server® 2008 (x86) Standard / Enterprise Microsoft® Windows Server® 2008 R2 Standard / Enterprise Microsoft® Windows Server® 2012 Standard / Datacenter Microsoft® Windows Server® 2012 R2 Standard / Datacenter Red Hat® Enterprise Linux® 6 VMware® ESXi™ 5 VMware® ESXi™ 6

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