

The high-capacity rack server

NEC Express5800/R120g-2E(Storage-Rich)



Key Features

- Support for the latest Intel® Xeon® E5-2600 v4 product family
- Up to 1 TB of high speed DDR4 memory
- 5 PCIe slots for various needs and future expansion
- Agent-less management with improved EXPRESSSCOPE Engine 3
- Wide range of operating ambient temperature from 5 to 40°C (41 to 104°F)

Overview

The Express5800/R120g-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 v4

product family, large memory and storage capacity, and high performance RAID controller supporting large cache memory and 12 Gbps SAS interface, the R120g-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 12-core Intel® Xeon® E5- 2600 v4 processors, 16 DIMM slots for DDR4-2400 memory, a choice of 24 2.5-inch drives or 12 3.5-inch drives, and various redundant capabilities, the R120g-2E delivers the optimal balance of performance and features to meet your storage needs.

Expandability for Data Growth

The Express5800/R120g-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 1 TB of memory capacity, 124 TB of storage capacity, and redundant storage options, the R120g-2E offers flexible network connectivity, superior storage expandability, and secure data protection.

Cost Savings Through Efficiency

NEC's innovative green design concepts and industry leading fan control technology allows the R120g-2E to operate at temperatures up to 40°C (104°F), therefore reducing cooling requirements. In addition, dual hot plug power supplies with cold-standby mode enable further energy savings.

Manage easy setup and deployment with NEC EXPRESSBUILDER and leverage easy management with NEC's EXPRESSSCOPE Engine 3 together with NEC ESMPro. The extensive remote management capabilities untangle the complexities in operating and maintaining the server to alleviate the burden of administrative tasks.

Hardware Specifications

MODEL	Express5800/R120g-2E
Form factor / height	2U Rack
Number of processors	1 to 2
Processors	Intel® Xeon® Processor E5-2603 v4 (1.70 GHz/6-core/15 MB) * Intel® Xeon® Processor E5-2620 v4 (2.10 GHz/8-core/20 MB) Intel® Xeon® Processor E5-2630 v4 (2.20 GHz/10-core/25 MB) Intel® Xeon® Processor E5-2650 v4 (2.20 GHz/12-core/30 MB) ** * Supported on only 3.5-inch drive model ** Supported on only 2.5-inch drive model
Memory type	DDR4-2400 ECC RDIMM
Memory slots	16
Maximum memory	1 TB
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	2.5-inch drive model: 16 to 26 2.5-inch with optional drive cage 3.5-inch drive model: 12 3.5-inch plus 2 2.5-inch with optional 2.5-inch drive cage
Maximum internal storage	124 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 100-240 VAC ± 10% 50 / 60 Hz ± 3 Hz
Systems management	EXPRESSSCOPE Engine 3
Interface	1 VGA, 1 to 2 serial, 4 USB 3.0 (plus 1 internal), 2 USB 2.0 (plus 1 internal), 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: 5 to 40 °C / 41 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® 2008 R2 Standard / Enterprise Microsoft® Windows Server® 2012 Standard / Datacenter Microsoft® Windows Server® 2012 R2 Standard / Datacenter Microsoft® Windows Server® 2016 Standard / Datacenter Red Hat® Enterprise Linux® 6 Red Hat® Enterprise Linux® 7 VMware® ESXi™ 5.5 VMware® ESXi™ 6.0 VMware® ESXi™ 6.5* * Available in March 2017

Note: For Linux support, visit the NEC website at <http://www.nec.com/en/global/prod/express/linux/>, or contact your sales representative

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