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NEC

The flexible, compact rack server

NEC Express5800/R120g-2E

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 45°C (41 to 113°F)

Overview

The Express5800/R120g-2E, a flexible dual-socket 2U rack server, offers the right balance of performance, scalability, and manageability in a compact chassis. Supporting the new high-performance and energy efficient Intel® Xeon® E5-2600 v4 product family, high speed DDR4-2400 memory, and up to 32 TB of storage capacity, the R120g-2E is ideal for virtualization solutions, database servers, and consolidation of business-critical application servers.

Features

High Performance and Capability

The Express5800/R120g-2E is designed to meet the essential requirements of data centers. With up to two 14-core Intel® Xeon® E5-2600 v4 processors, 16 DIMM slots for DDR4-2400 memory, 16 hot-plug drive bays, integrated remote management capability, and NEC's power management technologies, the R120g-2E delivers an optimal balance of performance and features for corporate and public data centers.

Meet Growing Business Needs

The Express5800/R120g-2E offers enterprise-class flexibility, expandability, and reliability to meet your business needs. A choice of RAID controllers enables you to select the appropriate controller based on your performance and feature requirements. With four PCIe Gen3 and one PCIe Gen2 slots, two integrated gigabit NICs, and up to 32 TB of drive capacity, the R120f-2E offers flexible network connectivity and storage expandability. The redundant storage, fan, and power supply options support business continuity.

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 45°C (113°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 E5-2609 v4 (1.70 GHz/8-core/20 MB) Intel® Xeon® Processor E5-2620 v4 (2.10 GHz/8-core/20 MB) Intel® Xeon® Processor E5-2623 v4 (2.60 GHz/4-core/10 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) Intel® Xeon® Processor E5-2660 v4 (2.00 GHz/14-core/35 MB) Intel® Xeon® Processor E5-2690 v4 (2.60 GHz /14-core/35 MB)
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
Maximum internal drive bays	8 to 16 with optional drive cage
Maximum internal storage	32 TB
Removable media	1 bay for optical drive 1 bay for internal removable drive
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	460 Watt, 800 Watt 100-240 VAC ± 10% 50 / 60 Hz ± 3 Hz
Systems management	EXPRESSSCOPE Engine 3
Interface	2 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 27 kg / 59.52 lbs.
Temperature and humidity conditions (non-condensing)	Operating: 5 to 40 °C / 41 to 104 °F or 5 to 45°C / 41 to 113 °F (Optional), 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 Red Hat® Enterprise Linux® 6 Red Hat® Enterprise Linux® 7 VMware® ESXi™ 5.5 VMware® ESXi™ 6

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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