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NEC

Reliable and Energy Efficient Rack Server for Data Centers

NEC Express5800/R110i-1

Key Feature

- Support for the latest Intel® Xeon® E3-1200 v6 product family
- Up to 64 GB of high speed DDR4 memory
- 3 PCIe slots in a 1U form factor
- Agent-less management with EXPRESSSCOPE Engine 3
- Wide range of operating ambient temperature from 5 to 45°C (41 to 113°F)

Overview

The NEC Express5800/R110i-1, an affordable yet powerful single-socket 1U rack server, delivers essential server features, flexibility, and enterprise-class reliability in a small footprint. Supporting high-performance Intel Xeon E3-1200 v6 product family and NEC's innovative green technology, the R110i-1 is ideal for small businesses, corporate data center and hosting service providers to provide web service, file, security and system management.

Features

Powerful Performance

Featuring the latest Intel Xeon E3-1200 v6 family of processors with up to 4-core and 8 MB last level cache, up to 64 GB of memory at 2400 MHz, and up to 48 TB of storage capacity, the Express5800/R110i-1 delivers optimum computing performance for small businesses, corporate data center and hosting service providers to provide web service, file, security and system management.

Flexible and Dense

The Express5800/R110i-1 delivers essential server features, flexibility, and enterprise-class reliability in a small footprint. The platform features a wide range of server and upgrade options with 4 memory slots, 8 2.5-inch or 4 3.5-inch drive bays, and 3 PCIe slots for various computing needs and future business growth.

Operational Cost Savings and Efficiency

NEC's innovative green design concepts and industry leading fan control technology allows the R110i-1 to operate at temperatures up to 45°C (113°F), therefore reducing cooling requirements. In addition, hot plug redundant 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	NEC Express5800/R110i-1
Form factor / height	1U Rack
Number of processors	1
Processors	Intel® Pentium® Processor G4560 (3.5 GHz, 2C/4T, 3 MB) Intel® Xeon® Processor E3-1220 v6 (3.0 GHz, 4C/4T, 8 MB) Intel® Xeon® Processor E3-1225 v6 (3.3 GHz, 4C/4T, 8 MB) Intel® Xeon® Processor E3-1230 v6 (3.5 GHz, 4C/8T, 8 MB) Intel® Xeon® Processor E3-1240L v5 (2.1 GHz, 4C/8T, 8 MB) Intel® Xeon® Processor E3-1260L v5 (2.9 GHz, 4C/8T, 8 MB) Intel® Xeon® Processor E3-1270 v6 (3.8 GHz, 4C/8T, 8 MB)
Memory type	DDR4-2400 ECC UDIMM
Memory slots	4
Maximum memory	64 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	8
Maximum internal storage	48 TB
Removable media	1 bay for optical drive
Expansion slots	1 PCIe x16 Gen 3 1 PCIe x4 Gen 3 1 PCIe x4 Gen 3 for a RAID controller
Video (VRAM)	Integrated in the server management controller (32 MB)
Network	2 1000BASE-T plus 1 1000BASE-T for management
Redundant power supply	Standard, hot plug (except non-redundant power supply model)
Redundant cooling fan	Optional, non-hot plug
Power supplies	Non-hot plug: 400 Watt Hot plug: 450 Watt 100-240 VAC ± 10% 50 / 60 Hz ± 3 Hz
Systems management	EXPRESSSCOPE Engine 3
Interface	1 VGA,1 to 2 serial, 6 USB 3.0 (plus 1 internal USB 3.0), 2 LAN, 1 management LAN
Dimensions (W x D x H) and maximum weight	444.0 x 615.2 x 43.6 mm / 17.5 x 24.2 x 1.7 in 17.5 kg / 38.58 lbs
Temperature and humidity conditions	Operating: 5 to 40 °C / 41 to 104 °F or 5 to 45°C / 41 to 113 °F (Optional), 10 to 85% Non-operating: -10 to 55 °C / 14 to 131 °F, 10 to 85%
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® 7 VMware® ESXi™ 6.0 VMware® ESXi™ 6.5 VMware® ESXi™ 6.7

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

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Cat. No. E03-18080007E