

Reliable and Energy Efficient Rack Server for Data Centers

NEC Express5800/R110h-1



Key Features

- Support for the latest Intel® Xeon E3-1200 v5 product family
- Up to 64 GB of high speed DDR4 memory
- 3 PCIe slots in a 1U form factor
- 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 NEC Express5800/R110h-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 v5 product family and NEC's

innovative green technology, the R110h-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 v5 family of processors with up to 4-core and 8 MB last level cache, up to 64 GB of memory at 2133 MHz, and up to 40 TB of storage capacity, the Express5800/R110h-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/R110h-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 R110h-1 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 ESM PRO. 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/R110h-1
Form factor / height	1U Rack
Number of processors	1
Processors	Intel® Pentium® Processor G4400 (3.30 GHz/2-core/3 MB) Intel® Xeon® Processor E3-1220 v5 (3.00 GHz/4-core/8 MB) Intel® Xeon® Processor E3-1230 v5 (3.40 GHz/4-core/8 MB) Intel® Xeon® Processor E3-1240L v5 (2.10 GHz/4-core/8 MB) Intel® Xeon® Processor E3-1260L v5 (2.90 GHz/4-core/8 MB) Intel® Xeon® Processor E3-1270 v5 (3.60 GHz/4-core/8 MB)
Memory type	DDR4-2133 ECC Unbuffered DIMM
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	40 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: 500 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 (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™ 6.0 VMware® ESXi™ 6.5* <small>* Available in March 2017</small>

For further information please contact your local NEC representative or:

Corporate Headquarters (Japan)
NEC Corporation
www.nec.com

North America (USA, Canada)
NEC Corporation of America
www.necam.com

APAC (South Asia, South East Asia, Oceania)
NEC Asia Pacific Pte. Ltd.
sg.nec.com

EMEA (Europe, Middle East, Africa)
NEC Enterprise Solutions
www.nec-enterprise.com