

Reliable and Energy Efficient Rack Server for Data Centers

NEC Express5800/R110j-1



Key Feature

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

Overview

The NEC Express5800/R110j-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 E Processors and NEC's innovative green technology, the R110j-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 E Processors of processors with up to 6-core and 12 MB last level cache, up to 64 GB of memory at 2666 MHz, and up to 24 TB of storage capacity, the Express5800/R110j-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/R110j-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, 6 2.5-inch or 2 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 R110j-1 to operate at temperatures up to 45°C (113°F), therefore reducing cooling requirements. Manage easy setup and deployment with NEC EXPRESSBUILDER and leverage easy management with the server management controller 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	NEC Express5800/R110j-1
Form factor / height	1U Rack
Number of processors	1
Processors	Intel® Pentium® Processor G5400 (3.7 GHz, 2C/4T, 4 MB) Intel® Core™ i3-8300 Processor (3.7 GHz, 4C/4T, 8 MB) Intel® Xeon® Processor E-2124 (3.3 GHz, 4C/4T, 8 MB) Intel® Xeon® Processor E-2126G (3.3 GHz, 6C/6T, 12 MB) Intel® Xeon® Processor E-2134 (3.5 GHz, 4C/8T, 8 MB) Intel® Xeon® Processor E-2136 (3.3 GHz, 6C/12T, 12 MB) Intel® Xeon® Processor E-2144G (3.6 GHz, 4C/8T, 8 MB) Intel® Xeon® Processor E-2174G (3.8 GHz, 4C/8T, 8 MB) Intel® Xeon® Processor E-2186G (3.8 GHz, 6C/12T, 12 MB)
Memory type	DDR4-2666 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 Hot plug 3.5-inch Near Line SAS HDD
Maximum internal drive bays	6
Maximum internal storage	24 TB
Removable media	1 bay for optical drive
Expansion slots	2 PCIe x8 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	Optional, hot plug
Power supplies	Non-hot plug: 290 Watt Hot plug: 500 Watt 100-240 VAC ± 10% 50 / 60 Hz ± 3 Hz
Interface	1 VGA, 1 serial (optional), 1 management USB 2.0, 3 USB 3.0 (plus 1 internal USB 3.0), 2 LAN, 1 management LAN (optional)
Dimensions (W x D x H) and maximum weight	434.6 x 382.3 x 43.2 mm / 17.1 x 15.1 x 1.7 in 11 kg / 24.25 lbs
Temperature and humidity conditions	Operating: 10 to 35 °C / 50 to 95 °F or 5 to 45°C / 41 to 113 °F (Optional), 8 to 90% Non-operating: -30 to 60 °C / -22 to 140 °F, 5 to 95%
Operating systems and virtualization software	Microsoft® Windows Server® 2016 Standard / Datacenter Microsoft® Windows Server® 2019 Standard / Datacenter *1 Red Hat® Enterprise Linux® 7 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

*1 Available in the middle of 2019

For further information please contact your local NEC representative or:

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