

The high-density rack server

NEC Express5800/R120h-1E



Key Feature

- Support for the latest Intel® Xeon® Processor Scalable Family
- Up to 1 TB of high speed DDR4 memory
- 4 PCIe slots for various needs and future expansion
- Agent-less management with integrated management controller

Overview

The Express5800/R120h-1E, a high-density dual-socket 1U rack server, offers outstanding performance, scalability, and simplified manageability in a compact chassis. Supporting the new high-performance and energy efficient Intel® Xeon® Processor Scalable Family, high speed DDR4-2666

memory, and agent-less management capability, the R120h-1E delivers an optimal balance of features at a reasonable cost for SMBs and service providers.

Features

High Performance and Capability

Featuring the Intel® Xeon® Processor Scalable Family with up to 26-core and 35.75 MB last level cache, up to 1 TB memory with 2666 MHz speed, and up to 40 TB of storage capacity, the R120h-1E is ideal for the most demanding applications such as internet hosting services, virtualization solutions, and mid-size database servers.

Flexibility for Various Workloads

The Express5800/R120h-1E offers the enterprise-class flexibility required to fit various workloads. Two embedded GbE network and selectable integrated NIC technology enable you to configure the appropriate network environment at minimum expense. With three PCIe Gen3 slots and a dedicated RAID card slot, the R120h-1E offers flexible network connectivity for LAN and SAN, and secure data protection for internal storage.

Cost Savings Through Efficiency

The Express5800/R120h-1E helps to reduce IT expense with NEC's innovative features. The agent-less remote monitoring feature minimizes administrator time and effort of by allowing staff to monitor and receive server status notifications from remote sites without dedicated management software. NEC's unique setup tool, EXPRESSBUILDER, helps reduce the time and effort required for server deployment.

Hardware Specifications

MODEL	NEC Express5800/R120h-1E
Form factor / height	1U Rack
Number of processors	1 to 2
Processors	Intel® Xeon® Processor Bronze 3104(6C/6T, 1.70 GHz, 8.25MB) / 3106(8C/8T, 1.70 GHz, 11MB) Intel® Xeon® Processor Silver 4108(8C/16T, 1.80 GHz, 11M) / 4110(8C/16T, 2.10 GHz, 11MB) / 4112(4C/8T, 2.60 GHz, 8.25MB) / 4114(10C/20T, 2.20 GHz, 13.75MB) / 4116(12C/24T, 2.10 GHz, 16.50MB) Intel® Xeon® Processor Gold 5115(10C/20T, 2.40 GHz, 13.75MB) / 5118(12C/24T, 2.30 GHz, 16.50MB) / 5120(14C/28T, 2.20 GHz, 19.25MB) / 5122(4C/8T, 3.60 GHz, 16.50MB) / 6126(12C/24T, 2.60 GHz, 19.25MB) / 6128(6C/12T, 3.40 GHz, 19.25MB) / 6130(16C/32T, 2.10 GHz, 22MB) / 6132(14C/28T, 2.60 GHz, 19.25MB) / 6134(8C/16T, 3.20 GHz, 24.75MB) / 6136(12C/24T, 3 GHz, 24.75MB) / 6138(20C/40T, 2GHz, 27.50MB) / 6140(18C/36T, 2.30 GHz, 24.75MB) / 6142(16C/32T, 2.60 GHz, 22MB) / 6148(20C/40T, 2.40 GHz, 27.50MB) / 6152(22C/44T, 2.10 GHz, 30.25MB) Intel® Xeon® Processor Platinum 8160(24C/48T, 2.10 GHz, 33MB) / 8164(26C/52T, 2GHz, 35.75MB)
Memory type	DDR4-2666 ECC RDIMM / LRDIMM
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 SATA SSD Hot plug 3.5-inch SAS HDD Hot plug 3.5-inch SATA HDD
Maximum internal drive bays	2.5-inch : 10 3.5-inch : 4
Maximum internal storage	40 TB
Removable media	1 bay for optical drive
Expansion slots (Standard)	1 PCIe x8 Gen 3 for a RAID controller 1 PCIe x8 Gen 3 for a flexible integrated NIC <small>* The expansion slot configuration is changed by installing optional riser cards</small>
Video (VRAM)	Integrated in the server management controller (16 MB)
Network	2 1000BASE-T plus 1 1000BASE-T for management
Redundant power supply	Optional, hot plug
Redundant cooling fan	Optional, non-hot plug
Power supplies	500W/800W 80 PLUS® Platinum certified hot plug PSU AC100-120V/200-240V±10%, 50/60Hz±3Hz 800W 80 PLUS® Titanium/1600W 80 PLUS® Platinum certified hot plug PSU AC200-240V±10%, 50/60Hz±3Hz
Interface	1 VGA, 1 serial (optional), 2 USB 3.0, 2 LAN, 1 management LAN
Dimensions (W x D x H) and maximum weight	434.6 x 614.9 x 42.9 mm / 17.1 x 24.2 x 1.7 in 26 kg / 57.32 lbs
Temperature and humidity conditions (non-condensing)	Operating: 10 to 35 °C / 50 to 95 °F, 8 to 90% Non-operating: -30 to 60 °C / -22 to 140 °F, 5 to 95%
Operating systems and virtualization software	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

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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