

The high-capacity rack server

NEC Express5800/R120h-2E



Key Feature

- Support for the latest Intel® Xeon® Processor Scalable Family
- Up to 1 TB of high speed DDR4 memory
- 8 PCIe slots in a 2U form factor
- Agent-less management with integrated management controller

Overview

The Express5800/R120h-2E, a flexible dual-socket 2U rack server, offers the right balance of performance, scalability, and simplified manageability in a compact chassis. Combining the new high-performance and energy efficient Intel® Xeon® Processor Scalable Family, large memory and

storage capacity, high performance RAID controller supporting large cache memory, and agent-less management capability, the R120h-2E delivers the optimal balance of performance and features at a reasonable cost for storage-intensive workloads for enterprise and service providers.

Features

Perfect Fit for Your Storage Needs

To meet the current data growth, data centers need cost-effective storage solutions that provide superior expendability, performance, and data protection features. Featuring up to two Intel® Xeon® Processor Scalable Family with up to 26-core and 35.75 MB last level cache, 1 TB memory with 2666 MHz speed, a choice of up to 26 2.5-inch drives or up to 8 3.5-inch drives, and redundant fan and power capabilities, the R120h-2E is suitable for network attached storage and data backup servers.

Capability and Flexibility for Data Growth

The Express5800/R120h-2E offers superior capability and flexibility to keep pace with your data growth. With up to 80 TB of storage capacity, two integrated gigabit NICs and selectable integrated NIC technology, four PCIe Gen3 and a dedicated RAID card slot, the R120h-2E offers outstanding storage capability, flexible network connectivity for LAN and SAN, and secure data protection for internal storage.

Cost Savings Through Efficiency

The Express5800/R120h-2E 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-2E
Form factor / height	2U 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 : 26 3.5-inch : 8
Maximum internal storage	80 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 80PLUS® 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	445.4 x 634.7 x 87.3mm / 17.5 x 25.0 x 3.4 in 33 kg / 72.75 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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