

The scalable and versatile rack server

NEC Express5800/R120h-2M



Key Feature

- Support for the latest Intel® Xeon® Processor Scalable Family
- Up to 3 TB of high speed DDR4 memory
- 10 PCIe slots in a 2U form factor
- · Agent-less management with integrated management controller

Overview

The Express5800/R120h-2M, a scalable dual-socket 2U rack server, offers outstanding performance, scalability, and reliability. Combining the high-performance and energy efficient Intel® Xeon® Processor Scalable Family, 24 slots of DDR4 memory, 30 drive bays, agent-less management capability, and various redundant options, the R120h-2M delivers a

massive resource pool for the memory-, processor-, and storage-intensive workload of large enterprise business.

Features

Distinguished Performance for Enterprise Workload

Featuring the Intel® Xeon® Processor Scalable family with up to 28-core and 38.5 MB cache, up to 3 TB of DDR4-2666 memory, up to 194 TB of storage capacity, the R120h-2M is ideal for the most demanding applications such as virtualization, large databases, and ERP systems for large enterprise.

Superior Expandability and Reliability

The Express5800/R120h-2M offers superior expandability and reliability for meeting enterprise business needs. With 24 DIMM slots, 30 hot plug drive bays, four standard gigabit NIC ports, and up to 10 PCle slots, the R120h-2M offers superior memory and storage capability, and flexible network connectivity. The redundant storage, fan, and power supply options help improve system uptime.

Cost Savings Through Efficiency

The Express5800/R120h-2M helps to reduce IT expense with NEC's innovative features. Combining intelligent cooling technology, redundant power supplies with cold-standby mode, and 92 percent efficiency, the R120h-2M helps to reduce energy costs. 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-2M
Form factor / height	2U Rack
Number of processors	1 to 2
	8180M(28C/56T, 2.50 GHz, 38.50MB)
Memory type	DDR4-2666 ECC RDIMM / LRDIMM
Memory slots	24
Maximum memory	3 TB
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 Near Line SAS HDD Hot plug 3.5-inch SATA HDD
Maximum internal drive bays	2.5-inch : 30 3.5-inch : 19
Maximum internal storage	194 TB
Removable media (Model dependent)	1 bay for optical drive
Expansion slots(Standard)	1 PCIe x16 Gen 3 2 PCIe x8 Gen 3 1 PCIe x8 Gen 3 for a RAID controller 1 PCIe x8 Gen 3 for a flexible integrated NIC * The slot mix changes by installing optional riser cards
Video (VRAM)	Integrated in the server management controller (16 MB)
Network	4 1000BASE-T plus 1 1000BASE-T for management
Redundant power supply	Standard, hot plug
Redundant cooling fan	Standard, 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), 3 to 4USB 3.0 (plus 2 internal USB 3.0), 4 LAN, 1 management LAN
Dimensions (W x D x H)	2.5-inch: 445.5 x 679.4 x 87.3 mm / 17.5 x 26.7 x 3.4 in 3.5-inch: 445.5 x 730.2 x 87.3 mm / 17.5 x 28.7 x 3.4 in
Temperature and humidity conditions	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® 6 Red Hat® Enterprise Linux® 7 VMware® ESXi™ 6.0 VMware® ESXi™ 6.5

For further information please contact your local NEC representative or:

Corporate Headquater (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

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