

The flexible compact modular server

NEC Express5800/D120h



Key Feature

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

Overview

The Express5800/D120h, a high-density dual-socket modular server, offers outstanding performance, scalability, and high-density mounting capability. Supporting the new high-performance and energy efficient Intel® Xeon® Processor Scalable Family, high speed DDR4-2666 memory,

and agent-less management capability in a half width chassis, the D120h delivers the right balance of performance and features for scale-out computing.

Features

Distinguished Performance and Capability for Compute-intensive Workloads

Featuring up to two of the Intel® Xeon® Processor Scalable family with up to 26-core and 35.75 MB cache, up to 2 TB of DDR4-2666 memory, up to three PCIe 3.0 slots, and up to 12 TB or 24 TB of storage capacity, the D120h is ideal for high performance computing, big data analysis, and hyper-converged infrastructure.

Superior Density Optimization

With up to two or four dual-processor servers with up to 16 DIMMs slots, up to three PCIe 3.0 slots, and six or 12 drive bays in 2U rack space, the D120h allows you to mount twice as many servers in the same space comparing with a traditional 1U or 2U rack servers.

Cost Savings Through Efficiency

The Express5800/D120h 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/D120h (1U Server Module)	NEC Express5800/D120h (2U Server Module)
Form factor / height	1U half-width	2U half-width
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) / 4114(10C/20T, 2.20 GHz, 13.75MB) / 4116(12C/24T, 2.10 GHz, 16.50MB) Intel® Xeon® Processor Gold 5118(12C/24T, 2.30 GHz, 16.50MB) / 5120(14C/28T, 2.20 GHz, 19.25MB) / 5122(4C/8T, 3.60 GHz, 16.50MB) / 6130(16C/32T, 2.10 GHz, 22MB) / 6132(14C/28T, 2.60 GHz, 19.25MB) / 6134(8C/16T, 3.20 GHz, 24.75MB) / 6138(20C/40T, 2GHz, 27.50MB) / 6140(18C/36T, 2.30 GHz, 24.75MB) / 6142(16C/32T, 2.60 GHz, 22MB) / 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) / 8160M(24C/48T, 2.10 GHz, 33MB)	
Memory type	DDR4-2666 ECC RDIMM / TSV-RDIMM	
Memory slots	16	
Maximum memory	2 TB (Platinum 8160M) / 1.5 TB (All other processors)	
Expansion slots (Standard)	1 PCIe 3.0 x16 (x16 connector) 1 PCIe 3.0 x8 (x8 connector) 1 PCIe 3.0 x16 for a LAN mezzanine card	1 PCIe 3.0 x16 (x16 connector) 1 PCIe 3.0 x8 (x8 connector) 1 PCIe 3.0 x16 for a LAN mezzanine card 1 PCIe 3.0 x16 for GPU card
Video (VRAM)	Integrated in the server management controller (32 MB)	
Network	2 10GBASE-T plus 1 1000BASE-T for management	
Interface	1 VGA, 2 USB 3.0 , 2 LAN, 1 management LAN	
Dimensions (W x D x H)	171.6 × 547.5 × 40.6 mm 6.76 x 21.6 x 1.60 in	171.6 × 547.5 × 81.5 mm 6.76 x 21.6 x 3.21 in
Temperature and humidity conditions (non-condensing)	Operating: 10° to 35°C / 50° to 95°F, 20 to 80% Non-operating: -10° to 55°C / 14° to 131°F, 20 to 80%	
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	

MODEL	1U Module Enclosure	2U Module Enclosure
Form factor / height	2U Rack	
Server node bays	4	2
Power supply bays	2	
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	
Internal drive bays	24 (6 bays per server node)	24 (6 or 12 bays per server node)
Network	1 1000BASE-T for management	
Power supplies	1300 Watt/2200 Watt 100-240 VAC ± 10% 50 / 60 Hz ± 3 Hz	2200 Watt 100-240 VAC ± 10% 50 / 60 Hz ± 3 Hz
Redundant Fan	Standard	
Redundant power supply	Standard, hot plug	
Dimensions (W x D x H)	440.0 x 820.0 x 87.5 mm / 17.3 x 32.3 x 3.4 in	

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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