Empowered by Innovation NEC

The scale-out computing server

NEC Express5800/E120e-M

SCALEABLE AND FLEXIBLE SERVERS FOR DATA CENTERS





EXTREME DENSITY

ULTIMATE POWER EFFICIENCY

SUPERIOR SERVICEABILITY

Flexible and Dense

The Express5800/E120e-M, an innovative modular server system, incorporates outstanding performance, flexibility, and enterprise-class reliability in an ultra-dense design. With its independent server node architecture, the E120e-M system provides maximum efficiency and availability. The E120e-M system operates in a 40 degree Celsius (104 degree Fahrenheit) environment, and accommodates flexible network and storage solutions in accordance with your system environment.

For Cloud Computing Environment

The Express5800/E120e-M, an Intel® processor-based four dual-socket server nodes in 2U enclosure system, is designed for scale-out computing required for memory and processor-intensive applications. The E120e-M is perfect for the most demanding data center applications as well as for high performance computing solutions.

Extreme Density

- Incorporates four standard dual-socket 1U rack server features in 2U rack space
- High-density compute node with the latest Intel® Xeon® Processor E5-2400 v2 product family, 12 DIMM slots, and PCIe Gen3 x16 slot

Ultimate Power Efficiency

- NEC's optimized cooling technology supports operation in a 40 degree Celsius (104 degree Fahrenheit) environment which minimizes cooling costs
- Shared power supply design and 80 PLUS® platinum certified power supply maximizes power efficiency
- NEC's cooling technology and intelligent fan control minimize power consumption for cooling

Superior Serviceability

- NEC's innovative server design, with server maintenance from the front side, enables replacing traditional rack servers without redesigning data center facilities
- EXPRESSSCOPE Engine 3 supports remote management in a secure communication environment without any additional software

HARDWARE SPECIFICATION

MODEL	Express5800/E120e-M
Form factor / height	1U half-width
Number of Processors	1 to 2
Processors	Intel® Xeon® Processor E5-2407 v2 (2.40 GHz/4-core/10 MB) Intel® Xeon® Processor E5-2430 v2 (2.50 GHz/6-core/15 MB) Intel® Xeon® Processor E5-2430L v2 (2.40 GHz/6-core/15 MB) Intel® Xeon® Processor E5-2450 v2 (2.50 GHz/8-core/20 MB) Intel® Xeon® Processor E5-2470 v2 (2.40 GHz/10-core/25 MB)
Memory type	DDR3-1600 ECC UDIMM, DDR3-1600 ECC RDIMM, DDR3-1066 ECC LRDIMM
Memory slots	12
Maximum memory	384 GB
Storage type	Hot plug 2.5-inch SAS and SATA HDD, Hot plug 2.5-inch SAS SSD
Maximum internal drive bays	4
Maximum internal storage	4.8 TB
Expansion slots	1 PCIe 3.0 x16, 1 PCIe 3.0 x8 for dedicated PCI cards
Video (VRAM)	Integrated in the server management controller (32 MB)
Network	2 1000BASE-T plus 1 100BASE-TX for management
Systems management	EXPRESSSCOPE Engine 3
Redundant cooling fan	Standard, non-hot plug
Interface	1 VGA, 1 serial, 2 USB 2.0 (plus 1 internal USB 2.0), 2 LAN, 1 management LAN
Temperature and humidity conditions (non-condensing)	Operating: 10 to 40°C / 50 to 104°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® 2008 Standard / Enterprise Microsoft® Windows Server® 2008 Standard (x64) / Enterprise (x64) Microsoft® Windows Server® 2008 R2 Standard / Enterprise Microsoft® Windows Server® 2012 Standard / Datacenter Red Hat® Enterprise Linux® 5 Red Hat® Enterprise Linux® 6 VMware® ESX™i 5

MODEL	Server Module Enclosure
Form factor / height	2U
Server node bays	4
Power supply bays	2
Power supplies	1600 Watt, 1000 Watt
Redundant power supply	Standard, hot plug
Dimensions (W x D x H) and maximum weight	447.0 x 780.0 x 87.0 mm / 17.5 x 30.7 x 3.4 in, 41 kg / 90.38 lbs.

Note : For Linux support, go to the NEC website at http://www.nec.com/global/prod/express/linux/, or contact our sales representative

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