The high-density rack server
NEC Express5800/R120e-1E

POWERFUL AND ENERGY EFFICIENT SERVER FOR HIGH-DENSITY INSTALLATIONS

HIGH PERFORMANCE

SUPERIOR ENERGY EFFICIENCY

SIMPLIFIED MANAGEABILITY

Powerful and Green

The Express5800/R120e-1E provides exceptional performance, essential scalability, and advanced reliability in a ultra-dense chassis. In addition, the R120e-1E features large storage and memory capacity, and also system management capability to meet your various computing needs. The R120e-1E helps to reduce IT expense with NEC's cooling technology and power management technology which minimizes energy loss.

High-density Compute Power

The Express5800/R120e-1E, a dual-socket 1U rack server built on the Intel® Xeon® E5-2400 v2 product family, is designed for corporate and public data centers which require high performance , reliability and value. The R120e-1E is suitable for internet hosting services, mid-size database, virtualization, and most demanding business applications.

High Performance

- Support for the Intel® Xeon® E5-2400 v2 product family providing maximum energy efficiency and performance

- Up to 384 GB memory and 16 TB drive capacity - perfect for internet hosting service and business application servers

- RAID controller supporting PCI express 3.0 and LSI CacheVault technology for high I/O throughput and data protection

Superior Energy Efficiency

- NEC's cooling technology and low power-consumption technologies to minimize power consumption

- Selectable power supply units (450 Watt or 800 Watt) and cold-standby mode to maximize energy conversion efficiency for any size system

- 80PLUS® Titanium and Platinum certified high-efficiency power supply units to help minimizing energy conversion loss

Simplified Manageability

- Integrated EXPRESSSCOPE Engine 3 technology provides extensive remote management capabilities regardless of the status of the server's power or operating system

- NEC's ESMPRO software suite provides centralized server management capabilities as well as advanced power management

HARDWARE SPECIFICATION

MODEL	Express5800/R120e-1E
Form factor / height	1U Rack
Number of processors	1 to 2
Processors	Intel® Xeon® Processor E5-2403 v2 (1.80 GHz/4-core/10 MB) Intel® Xeon® Processor E5-2407 v2 (2.40 GHz/4-core/10 MB) Intel® Xeon® Processor E5-2420 v2 (2.20 GHz/6-core/15 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 E5-2440 v2 (1.90 GHz/8-core/20 MB) Intel® Xeon® Processor E5-2470 v2 (2.40 GHz/10-core/25 MB)* * 2.5-inch drive model only
Memory type	DDR3-1600 ECC LV UDIMM, DDR3-1600 ECC LV RDIMM, DDR3-1333 ECC LV RDIMM
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 Hot plug 3.5-inch SATA HDD
Maximum internal drive bays	6 to 8 2.5-inch with optional drive cage, 4 3.5-inch
Maximum internal storage	16 TB
Removable media	1 bay for optical drive
Expansion slots	1 PCIe x16 Gen 3, 1 PCIe x4 Gen 2, 1 PCIe x8 Gen 3 for a RAID controller
Video (VRAM)	Integrated in the server management controller (32 MB)
Network	4 1000BASE-T plus 1 100BASE-TX for management
Redundant power supply	Optional, hot plug
Redundant cooling fan	Standard, non-hot plug
Power supplies	450 Watt, 800 Watt
Systems management	EXPRESSSCOPE Engine 3
Interface	2 VGA, 1 to 2 serial, 6 USB 2.0 (plus 3 internal USB 2.0), 4 LAN, 1 management LAN
Dimensions (W x D x H) and maximum weight	439.8 x 682.1 x 43.4 mm / 17.3 x 26.9 x 1.7 in / 18 kg / 39.68 lbs.
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 R2 Standard / Enterprise Microsoft® Windows Server® 2012 Standard / Datacenter Microsoft® Windows Server® 2012 R2 Standard / Datacenter Red Hat® Enterprise Linux® 5 Red Hat® Enterprise Linux® 6 VMware® ESX™i 5

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

Windows Server 2012   **redhat.**   **vmware®**

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