

## The high-density rack server

# NEC Express5800/R120d-1E

**POWERFUL AND ENERGY EFFICIENT SERVER FOR HIGH-DENSITY INSTALLATIONS**



**HIGH PERFORMANCE**

**SUPERIOR ENERGY EFFICIENCY**

**SIMPLIFIED MANAGEABILITY**

### Powerful and Green

The Express5800/R120d-1E, a small footprint server, provides exceptional performance, scalability, and enterprise-class availability. This server offers large-capacity hard drives and memory in a small space to support growth of your business. NEC's industry-leading system cooling technology enables operation at 40-degree Celsius (104 Fahrenheit) to reduce power consumption by minimizing cooling requirements.

### High-density Compute Power

The Express5800/R120d-1E, an Intel® processor-based dual-socket 1U rack server, is perfect for high-performance and high-density data requirements. To keep your business running during a system error, it supports various redundant components in addition to remote management functions. Suitable for small- to medium-sized businesses, datacenter virtualization, and collaboration applications.

### High Performance

- Supports the Intel® Xeon® E5-2400 product family 8-core processor for maximum energy efficiency and performance
- Up to 384 GB memory - perfect for consolidation of business application servers or desktop virtualization at SMBs
- RAID controller with CacheCade™ technology and a dual-core I/O processor for significant reduction in I/O latency

### Superior Energy Efficiency

- 80 PLUS® Platinum certified power supply
- Selectable power supply units (450 Watt or 800 Watt) and cold-standby mode maximize AC/DC efficiency for any size system
- NEC's cooling technology and intelligent fan control minimize power consumption for cooling

### Simplified Manageability

- EXPRESSSCOPE Engine 3 supports remote management in a secure communication environment without any special software
- Standard with NEC's unique setup tool, the EXPRESSBUILDER, to enable auto OS installation on a 2-minute manual setting without technical skills

## HARDWARE SPECIFICATION

MODEL	Express5800/R120d-1E
Form factor / height	1U Rack
Number of processors	1 to 2
Processors	Intel® Xeon® Processor E5-2403 (1.80 GHz/4-core/10 MB) Intel® Xeon® Processor E5-2407 (2.20 GHz/4-core/10 MB) Intel® Xeon® Processor E5-2420 (1.90 GHz/6-core/15 MB)* Intel® Xeon® Processor E5-2430 (2.20 GHz/6-core/15 MB) Intel® Xeon® Processor E5-2430L (2 GHz/6-core/15 MB) Intel® Xeon® Processor E5-2450 (2.10 GHz/8-core/20 MB) Intel® Xeon® Processor E5-2470 (2.30 GHz/8-core/20 MB)* * 2.5-inch drive model only
Memory type	DDR3-1333 ECC LV UDIMM, DDR3-1600 ECC LV RDIMM, DDR3-1066 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
Maximum power consumption	522 VA / 512 Watt (at 100 VAC)
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% * In specific configurations, the operable ambient temperature is up to 35°C/95°F
Operating systems and virtualization software	Microsoft® Windows Server® 2003 R2, Standard Edition / Enterprise Edition Microsoft® Windows Server® 2003 R2, Standard x64 Edition / Enterprise x64 Edition 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™ 4 VMware® ESX™ 5

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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