NEC

The powerful departmental server
NEC Express5800/T120d

DEPENDABLE AND SCALABLE TOWER SERVER FOR THE CORE BUSINESS APPLICATIONS

ENERGY STAR · **80 PLUS PLATINUM** · **intel inside™ Xeon®**

HIGH PERFORMANCE

SUPERIOR ENERGY EFFICIENCY

SIMPLIFIED MANAGEABILITY

Powerful and Green

The Express5800/T120d offers exceptional performance, scalability, and enterprise-class availability. NEC's industry-leading cooling technology enables operation at 40-degree Celsius (104 Fahrenheit) to reduce power consumption by minimizing cooling requirements. The server contributes to energy-efficiency and CO_2 reduction by using green technology.

High-density Compute Power

The Express5800/T120d, an Intel® processor-based dual-socket tower/5U rack-mountable server, is ideal for high-performance and I/O scalability requirements. Supports various redundant components to keep your business running during a system error. Perfect for medium- to large-sized businesses, virtualization of branch-office servers, database, 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 or Gold 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/T120d
Form factor / height	Tower / 5U 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 E5-2450 (2.10 GHz/8-core/20 MB) Intel® Xeon® Processor E5-2470 (2.30 GHz/8-core/20 MB)
Memory type	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 and SATA SSD Hot plug 3.5-inch SATA HDD Non-hot plug 3.5-inch SATA HDD
Maximum internal drive bays	8 to 24 2.5-inch with optional drive cage 4 to 8 3.5-inch with optional drive cage
Maximum internal storage	24 TB
Removable media	1 bay for optical drive, 2 bay for internal 5-inch tape drive
Expansion slots	1 PCIe x16 Gen 3, 1 to 2 PCIe x8 Gen 3, 1 PCIe x4 Gen 2, 1 PCIe x1 Gen 2
Video (VRAM)	Integrated in the server management controller (32 MB)
Network	2 1000BASE-T plus 1 100BASE-TX for management
Maximum power consumption	700 VA / 699 Watt (at 100 VAC)
Redundant power supply	Optional, hot plug
Redundant cooling fan	Optional, hot plug
Power supplies	Hot plug power supply 450 Watt, 800 Watt Non-hot plug power supply 700 Watt
Systems management	EXPRESSSCOPE Engine 3
Interface	1 VGA, 1 to 2 serial, 6 USB 2.0 (plus 3 internal USB 2.0), 2 LAN, 1 management LAN
Dimensions (W x D x H) and maximum weight	200.0 x 599.0 x 438.0 mm / 7.8 x 23.5 x 17.2 in / 33 kg / 72.75 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® 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 Red Hat® Enterprise Linux® 5 Red Hat® Enterprise Linux® 6 VMware® ESX™ 4 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

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