

The powerful departmental server

NEC Express5800/T120g



Key Features

- Support for the latest Intel® Xeon® E5-2600 v4 product family
- Up to 1 TB of high speed DDR4 memory
- 5 PCIe slots for various needs and future expansion
- Graphics Card Installation Kit allows 300W GPU card installation
- Agent-less management with improved EXPRESSCOPE Engine 3
- Wide range of operating ambient temperature from 5 to 45°C (41 to 113°F)

Overview

The Express5800/T120g, a dual-socket tower / 5U rack-mountable server, offers essential performance, expandability, and reliability in a compact chassis. Supporting the new high-performance and energy efficient Intel® Xeon® E5-2600 v4 product family, high speed DDR4-2400

memory, and up to 80 TB of storage capacity, the T120g is ideal for virtualization of branch-office servers, medium-sized databases, collaboration applications, and ERP systems for medium-sized businesses.

Features

Powerful Performance for Branch Office Applications

The Express5800/T120g is optimized as a branch office server that provides optimal performance, expandability, and reliability. With up to two 18-core Intel® Xeon® E5-2600 v4 processors, 16 DIMM slots for DDR4 memory, 24 hot-plug 2.5-inch drive bays, agent-less management capability, and various redundant options, the T120g delivers the right balance of features for SMBs as well as branch offices of large-enterprises.

Great Expandability and Reliability

The Express5800/T120g offers great expandability and reliability required to meet your business growth. With four PCIe Gen3 and one PCIe Gen2 slots, two integrated gigabit NICs, and up to 80 TB of storage capacity, the T120g offers flexible network connectivity and superior storage capacity. The redundant storage, fan, and power supply options help improve system uptime. Also, an optional Graphics Card Installation Kit allows 300W GPU card installation for high performance applications.

Cost Savings Through Efficiency

The Express5800/T120g helps to reduce IT expense with NEC's innovative features. Combining high ambient temperature operation up to 45° C (113° F), intelligent cooling technology, redundant power supplies with cold-standby mode, and 92 percent efficiency, the T120g helps to reduce energy costs. 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	Express5800/T120g
Form factor / height	Tower / 5U Rack
Number of processors	1 to 2
Processors	Intel® Xeon® Processor E5-2603 v4 (1.70 GHz/6-core/15 MB) Intel® Xeon® Processor E5-2620 v4 (2.10 GHz/8-core/20 MB) Intel® Xeon® Processor E5-2623 v4 (2.60 GHz/4-core/10 MB) Intel® Xeon® Processor E5-2630 v4 (2.20 GHz/10-core/25 MB) Intel® Xeon® Processor E5-2650 v4 (2.20 GHz/12-core/30 MB) Intel® Xeon® Processor E5-2660 v4 (2.00 GHz/14-core/35 MB) Intel® Xeon® Processor E5-2690 v4 (2.60 GHz /14-core/35 MB) Intel® Xeon® Processor E5-2697 v4 (2.30 GHz/18-core/45 MB)
Memory type	DDR4-2400 ECC RDIMM
Memory slots	16
Maximum memory	1 TB
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 Hot plug 3.5-inch SATA HDD
Maximum internal drive bays	2.5-inch drive configuration: 8 to 24 2.5-inch with optional drive cage 3.5-inch drive configuration: 4 to 8 3.5-inch with optional drive cage
Maximum internal storage	80 TB
Removable media	1 bay for optical drive 2 bay for internal 5-inch tape drive
Expansion slots	2 PCIe x16 Gen 3 2 PCIe x8 Gen 3 1 PCIe x4 Gen 2
Video (VRAM)	Integrated in the server management controller (32 MB)
Network	2 1000BASE-T plus 1 1000BASE-T for management
Redundant power supply	Standard, hot plug (except non-redundant power supply model)
Redundant cooling fan	Optional, hot plug
Power supplies	Hot plug power supply 460 Watt, 800 Watt, 1000 Watt Non-hot plug power supply 700 Watt 100-240 VAC ± 10% 50 / 60 Hz ± 3 Hz
Systems management	EXPRESSSCOPE Engine 3
Interface	1 VGA, 1 to 2 serial, 4 USB 3.0 (plus 1 internal), 2 USB 2.0 (plus 1 internal), 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 31 kg / 68.34 lbs.
Temperature and humidity conditions (non-condensing)	Operating: 5 to 40 °C / 41 to 104 °F or 5 to 45°C / 41 to 113 °F (Optional), 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 R2 Standard / Enterprise Microsoft® Windows Server® 2012 Standard / Datacenter Microsoft® Windows Server® 2012 R2 Standard / Datacenter Microsoft® Windows Server® 2016 Standard / Datacenter Red Hat® Enterprise Linux® 6 Red Hat® Enterprise Linux® 7 VMware® ESXi™ 5.5 VMware® ESXi™ 6.0 VMware® ESXi™ 6.5* * Available in March 2017

Note: For Linux support, visit the NEC website at <http://www.nec.com/en/global/prod/express/linux/>, or contact your sales representative

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