

NEC Express5800/100 Series T120a-E



NEC Express5800/T120a-E

Highlights

■ Dependable and affordable 2-socket tower server

The T120a-E features the industry's latest hardware technologies to provide reliable server performance at an affordable price.

- Up to two Intel® Xeon® processors 5500 series
- Up to 192GB of memory
- Up to four 3.5-inch SAS/SATA or eight 2.5-inch SAS/SATA disk drives, with optional RAID 5 and 6 capability
- PCI Express 2.0, with twice the bandwidth of the previous generation
- 80PLUS® energy efficient power supply for reduced AC/DC loss

■ Dynamic scalability

Powered by Intel® Xeon® 5500 series with QuickPath Interconnect (QPI) technology, the T120a-E achieves significant throughput performance improvement. The latest processor features include:

- Enhanced performance of individual processor cores to process more instructions per clock cycle
- Integrated Memory Controller to allow each processor to access its own dedicated memory
- High-speed QuickPath interconnects to link processors to memory and I/O without the conflict between processors

■ Simplified deployment and management

The T120a-E offers integrated setup and management tools.

- The EXPRESSBUILDER setup support tool provides step-by-step guides via intuitive graphic interface and automates the setup process with the Express Setup function, dramatically reducing hands-on management of the server.
- The ESMPRO management software and the EXPRESSSCOPE Engine 2 remote management controller interact to monitor, control and troubleshoot from a remote console, with no need to travel for on-site operational tasks.



Ideal Environments and Applications

The T120a-E is designed for small to medium businesses looking for secure data storage with flexible configurations to support future business growth.

- File server to consolidate and centrally manage distributed files and data, optimize IT resources and drive business efficiency
- Web server to handle increasing user access requirements, while enhancing business efficiency by interacting with groupware and an application server

Specification Overview

Processors

Quad-core processors
Intel® Xeon® Processor X5550 (2.66GHz/8MB L3 Cache)
Intel® Xeon® Processor E5520 (2.26GHz/8MB L3 Cache)

Dual-core processor
Intel® Xeon® Processor E5502 (1.86GHz/4MB L3 Cache)

Memory

DDR3 DIMM with ECC
Up to 192GB (12 x 16GB)

Maximum storage

3.5-inch SATA : 4TB (4 x 1TB)
3.5-inch SAS : 1.8TB (4 x 450GB)
2.5-inch SATA : 4TB (8 x 500GB)
2.5-inch SAS : 2.4TB (8 x 300GB)

Removable media

1 x DVD-ROM drive (CD: max. X40 DVD: max. X16)
1 x floppy disk drive (optional)

Expansion slots

Total: 6 slots
3 x PCI Express 2.0 X8
1 x PCI Express X4
1 x 32bit/33MHz PCI (5V)
1 x dedicated slot for a RAID controller

Video

Integrated in the Server Management Controller (32MB)

Network

2 x 1000BASE-T (100BASE-TX is supported)

Power consumption

110VA/108W up to 554VA/549W

Redundant power supply

Supported (hot plug)

Redundant cooling fan

Supported

External interfaces

1 x VGA, 1 x keyboard, 1 x mouse, 4 x USB 2.0, 1 x serial
2 x LAN, 1 x management LAN

Dimensions (mm) and weight

205W x 599D x 450H* *316W x 620D x 450H (including front bezel and protruding objects)
Std: 20kg Max: 26kg

An optional Rack Conversion Kit allows the T120a-E to convert to a 5U rack server.

Operating systems

Microsoft® Windows Server® 2003, Standard/Enterprise Editions (SP1 or later)
Microsoft® Windows Server® 2003 R2, Standard/Enterprise Editions (x64)
Microsoft® Windows Server® 2008 Standard/Enterprise (x64)
Red Hat® Linux™
VMware® ESXi™ 4

Note:
For Linux support, contact your local NEC sales office, or go to the NEC website at:
<http://www.nec.com/global/prod/express/linux/index.html>

NEC EXPRESS5800

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