

NEC Express5800/R140a-4

NEC Express5800/100 Series R140a-4

A highly scalable, enterprise server, optimized for mission critical virtualization, database, and transaction-intensive workloads



Key Benefits

Uses Intel's latest processor technology and high-capacity memory for exceptional performance

- Intel® Core™ Micro-Architecture-based Intel® Xeon® Processors provide enhanced performance and lower power consumption
- Supports up to 32 DDR2-800 Fully-Buffered DIMMS for improved throughput
- Includes four GbE ports supporting both AFT and ALB

Supports a large amount of expandable industry-standard internal storage

- Supports up to eight 2.5-inch SAS disk drives, with RAID 6 capability
- Contains one 5-inch device bay to contain a large capacity storage device, such as an LTO tape drive

Integrated software tools for simplified deployment and management

- The EXPRESSBUILDER installation support tool enables automatic setup and dramatically reduces the time for installation
- The ESMPRO server management software and the EXPRESSSCOPE Engine 2 remote management controller interact to monitor, control and troubleshoot the system from a remote console

Ideal Applications

- Database servers that handle large volumes of data
- Application servers used to consolidate business-critical and general office applications, and process high volumes of data in tandem with a backend database

Product Specifications

Processors

Intel® Xeon® Processor X7460 (2.66GHz/1066MHz FSB/16MB L3 cache)
Intel® Xeon® Processor E7420 (2.13GHz/1066MHz FSB/8MB L3 cache)
Intel® Xeon® Processor E7310 (1.60GHz/1066MHz FSB/2x2MB L2 cache)

Memory

DDR2-667 Fully-Buffered DIMM (ECC, x4/x8 SDDC, and mirroring*)
Up to 128GB (32 x 4GB)

*Mirroring requires three Additional Memory BackBoards.

Maximum storage

2.5-inch SAS: 2.4TB (8 x 300GB)

Removable media

CD-RW/DVD-ROM drive (CD: max. X24 DVD: max. X8)*

*Write software is not provided.

Expansion slots

Total: 7 slots
4 x PCI Express X8 (2 x hot plug)
3 x PCI Express X4

Video

Integrated in Server Management Controller (8MB)

Network

4 x 1000BASE-T/100BASE-TX/10BASE-T

Power consumption

1800VA/1764W

Redundant power supply

Depends on power supply environment. Contact your local NEC sales office.

Redundant cooling fan

Standard: supported (hot plug)

External interfaces

2 x VGA, 1 x keyboard, 1 x mouse, 5 x USB 2.0, 1 x serial, 4 x LAN
1 x management LAN

Dimension and weight

483W x 732D x 173H* (4U) *485W x 754D x 177H (including a front bezel)
Max: 47kg

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™

Note:

For Linux support, go to the NEC website at www.nec.com/express, or contact your local NEC sales office.

NEC EXPRESS5800

For further information, please contact:

- Microsoft and Windows Server are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- Intel and Xeon are registered trademarks or trademarks of Intel Corporation or its subsidiaries in the United States and other countries.
- Linux is a trademark of Linus Torvalds.
- Red Hat is a registered trademark of Red Hat, Inc. in the U.S.
- All other products, brands, or trade names used in this document are trademarks or registered trademarks of their respective holders.
- Specifications are subject to change without notice.