

The highly scalable enterprise server

EXPRESS5800/R140b-4

SCALABILITY AND FLEXIBILITY FOR TRANSACTION-INTENSIVE, MISSION-CRITICAL SYSTEMS



HIGH PERFORMANCE

SCALABILITY & FLEXIBILITY

SIMPLIFIED MANAGEABILITY

Reliable server with scalability

The EXPRESS5800/R140b-4 server is a 4-socket 4U enterprise platform designed to provide outstanding performance and expandable capacity with proven enterprise-class reliability. Perfect for space-constrained corporate data centers seeking sufficient scale up capabilities for future growth.

Compute intensive, critical applications

Designed for companies running critical applications requiring superior performance. An ideal platform for server consolidation, enterprise computing, complex transactions and virtualization.

Advanced system management

R140b-4 comes standard with a practical remote management solution. Remote monitoring and management are possible through a Web browser regardless of the status of the operating system and even when the platform is turned off.

High performance

- Support for 8-, 6-, 4- core Intel® Xeon® Processor 7500 series
- Supports up to 64 DDR3-1066 DIMMs expandable up to 512GB
- Four GbE ports supporting both teaming and bonding

Scalability and flexibility

- Supports massive internal storage: up to eight 2.5-inch SAS disk drives with RAID 0/1/5/6/10/50 capability
- Ten PCI Express expansion slots
- 5-inch device bay for large-capacity storage device (e.g. LTO tape drive)

Simplified manageability

- EXPRESSSCOPE Engine 2 remote management controller and ESMPRO management software interact to monitor, control and troubleshoot from a remote console.
- The EXPRESSBUILDER setup support tool largely automates and simplifies installation.

HARDWARE SPECIFICATION

MODEL	EXPRESS5800/R140b-4
Processors	Number of processor: 2, 4 Intel® Xeon® Processor X7560 (2.26GHz/8C/24MB) Intel® Xeon® Processor E7530 (1.86GHz/6C/12MB) Intel® Xeon® Processor E7520 (1.86GHz/4C/18MB)
Memory	DDR3-1066 ECC registered DIMM Max.: 512GB (64 x 8GB)
Maximum storage	2.5-inch SAS: 7.2TB (8 x 900GB) 2.5-inch SATA: 8TB (8 x 1TB) 2.5-inch SSD: 800TB (8 x 100GB)
Removable media	1 bay for optical disk drive 1 bay for internal tape drive
Expansion slots	Total: 10 slots available* 1 x PCIe 2.0 x16 (x16 connector) 4 x PCIe 2.0 x8 (x8 connector) 3 x PCIe 2.0 x4 (x8 connector) 2 x PCIe x4 (x8 connector) * Plus one dedicated slot for a RAID controller
Video	Integrated in the Server Management Controller (32MB)
Network	4 x 1000BASE-T/100BASE-TX/10BASE-T
Power consumption	2430VA/2383W (max., at 100V)
Redundant power supply	Optional, hot plug
Redundant cooling fan	Standard, hot plug
Management	Server Management Controller (EXPRESSSCOPE Engine 2)
Interface	2 x VGA, 5 x USB 2.0 (plus 3 x internal USB 2.0), 1 x serial*, 4 x LAN, 1 x management LAN * Total 2 with optional port
Dimensions (W x D x H) and weight	483 x 757 x 176 mm / 19 x 29.8 x 6.9 in (4U) Max.: 56kg / 123.46lb
Temperature and humidity conditions	Operating: 10 to 35 °C / 20 to 80% (non-condensing) Non-operating: -10 to 50°C / 20 to 80% (non-condensing)
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® 5.5 or later VMware® ESX™i 4.1

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

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