The high-density & performance enterprise server
NEC EXPRESS5800/R140b-4

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

intel
Xeon
inside™

Puissant.
Intelligent.

PERFORMANCE

HIGH EXPANDABILITY

SIMPLIFIED MANAGEMENT

Performance and reliability in a scalable server

The NEC R140b-4 server is a 4-way enterprise server, designed to provide scalable performance and expandable capacity with proven enterprise-class reliability.
This server system is intended specifically for space-constrained corporate Data Centers looking for large scale up capabilities, providing a more cost effective and reliable solution.

Ideal environments and applications

Designed for companies running critical applications requiring superior performance. It is an ideal foundation for server consolidation, enterprise computing, complex transactions and virtualization.

Remote management

Supplied as standard with the EXPRESSSCOPE® and ESMPRO® complete solution for improved remote management, the solution enables remote monitoring, control and troubleshooting of your system, with no need to travel for on-site operational tasks.

HARDWARE SPECIFICATION

▍ Performance

- Latest Intel Xeon Processor 7500 series
- 10 PCI Express slots including 4 HotPlug
- On-board RAID 6 technology

▍ Simplified management

- Integrated server management controller (32MB)
- ESMPRO software and EXPRESSSCOPE Engine 2, remote management suite and installation configuration support tool

▍ High expandability

- Massive internal storage: eight 2.5-inch hard disk drives with RAID 0/1/5/6/10/50 capability
- 5-inch device bay for built-in backup tape drive
- Memory capacity expandable up to 512GB

MODEL		NEC Express5800/R140b-4
Processor type		Intel® Xeon®
Processor number		X7560 (2.26GHz / 24MB L3 cache) E7530 (1.86GHz / 12MB L3 cache) E7520 (1.86GHz / 18MB L3 cache)
No. of processors (max.)		4
Chipset		Intel 7500
Memory	Memory type	DDR3-1066 SDRAM DIMM, Registered, with ECC, x4/x8 SDDC, online sparing and mirroring
	Maximum	512GB (64 x 8GB)
Internal HDD	Maximum	2.5-inch SAS: 4.8TB (8 x 600GB) 2.5-inch SATA: 4TB (8 x 500GB) 2.5-inch SSD (SATA): 400GB (8 x 50GB)
	RAID	SATA 3Gb/s: RAID 0/1/5/6/10/50 SAS 6Gb/s: RAID 0/1/5/6/10/50
	Hot Plug	Supported
Optical Drive		Optional
LAN Interface		4 x 1000BASE-T (100BASE-TX and 10BASE-T are supported.)
Expansion Slots [Open]		Total: 10 1x PCI EXPRESS 2.0 (x16 lane, x16 socket) (full height 234mm) 4x PCI EXPRESS 2.0 (x8 lane, x8 socket) (full height 234mm) [hot pluggable] 3x PCI EXPRESS 2.0 (x4 lane, x8 socket) (full height, one 234mm and two 167mm) 2x PCI EXPRESS 1.1 (x4 lane, x8 socket) (full height 167.6mm)
Video		Integrated in the Server Management Controller (32MB)
Max. Power Consumption		2430VA / 2383W
Redundant Power Supply		Option (hot plug)
Redundant Cooling		Standard (hot plug)
Management		Remote Management: ExpressScope Engine 2 Administration software: ESMPRO Proactive alert maintenance and early intervention service: ExpressReport (optional) Continuous update service: ExpressUpdate (integrated) Configuration software: ExpressBuilder
External Interface		2 x VGA, 5 x USB 2.0, 1 x Serial, 4 x LAN, 1 x Management LAN
Dimensions (mm)		483.0 x 757.0 x 176.0 mm (4U) 485.0 x 783.0 x 177.0 mm (when a front bezel is installed)
Weight		Max. 56kg
Supported OS		Microsoft Windows Server 2003 R2 Standard/Enterprise Edition, Microsoft Windows Server 2003 R2 Standard/Enterprise x64 Edition, Microsoft Windows Server 2008 Standard/Enterprise, Microsoft Windows Server 2008 Standard/Enterprise (x64), Microsoft Windows Server 2008 R2 Standard/Enterprise Red Hat® Linux™ *1

*1 For Linux support status for the NEC Express5800 servers, go to Linux on NEC Express5800, or contact your local NEC sales office

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