

The ultra slim rack server

NEC EXPRESS5800/R120b-1

CONTROL ENERGY SERVER OPTIMIZED FOR SPACE CONSTRAINED INSTALLATIONS



PERFORMANCE

ROBUSTNESS

SIMPLIFIED MANAGEMENT

Small form factor

The NEC Express5800/R120b-1 is a dual-socket ultra-dense 1U rack server combining outstanding performance, reliability and powerful remote management for space constrained environments. It optimized chassis for companies seeking to maximise their processing power in a small space.

Designed for

Medium businesses with rack environment, corporate data centers and remote branch offices as well as Internet Service Providers & Application Service Providers. It is the perfect solution to house front-end applications such as Proxy, Firewall, VPN, Load balancing, cache servers and HPC Applications.

Remote management Solution

The NEC Express5800/R120b-1 server comes standard with "EXPRESSSCOPE® and ESMPRO®", a complete & improved solution for remote management. It enables remote monitoring and management for each server regardless of the Operating System status and even in case the platform is turned off through a Web browser

HARDWARE SPECIFICATION

Performance

- Intel® Xeon® 32nm Dual/Quad/Six processors (5600 series)
- Up to 192Go DDR3 1333Mhz RDIM memory capacity
- Supports x6 SAS 2.5" or x3 SATA 3.5" HotSwap HDDs
- PCI-e2 (x4) slot dedicated to RAID controller
- High performance PSU 80+

Robustness

- New RAID controller (128/256Mo cache, RAID 0,1,5,6,10,50) with optional battery backup unit
- Standard "One Touch" Rails Technology (with cable arm)
- Standard Redundant fans
- HotSwap Redundant power supply

Simplified management

- Integrated Web-based remote management Technology featuring KVM over IP and remote media
- ESMPRO Suite and ExpressBuilder, Remote management suite and installation, configuration support tool

MODEL	NEC Express5800/R120b-1
Processors	Number of processors: 1-2 Intel® Xeon® processor X5670 (2.93GHz, 6C/12T, 12MB L3 cache) Intel® Xeon® processor E5640 (2.66GHz, 4C/8T, 12MB L3 cache) Intel® Xeon® processor E5620 (2.40GHz, 4C/8T, 12MB L3 cache) Intel® Xeon® processor E5506 (2.13GHz, 4C/4T, 4MB L3 cache) Intel® Xeon® processor E5503 (2GHz, 2C/2T, 4MB L3 cache)
Memory	DDR3-1333 Registered DIMM ECC, x4/xB SDDC, sparing*, mirroring *The models adopting Xeon E5503 and E5506 do not support memory mirroring. Up to 192GB with 12 x 16GB DIMMs
Maximum storage	2.5-inch SAS : 3.6 TB (6 x 600GB) 2.5-inch SATA: 3 TB (6 x 500GB) 2.5-inch SSD : 300 GB (6 x 50GB) 3.5-inch SATA HDD : 6TB (3 x 2TB)
Removable media	1 bay for optical disk drive
Expansion slots	Total: 2 slots available** 1 x PCI Express 2.0 (x16 lane, x16 socket) 1 x PCI Express 2.0 (x8 lane, x8 socket) *The slot mix changes by installing optional riser card - **Plus one dedicated slot for a RAID controller
Video	Integrated in Server Management Controller (32MB)
Network	2 x 1000BASE-T/100BASE-TX/10BASE-T
Power consumption	690VA / 680W (max.)
Redundant power supply	Optional, hot-plug
Redundant cooling fan	Standard, no hot-plug
Management	Remote Management: ExpressScope Engine 2 Integrated remote Media and KVM over IP Administration software: ESMPRO management Configuration software: ExpressBuilder
External interfaces	2 x VGA, 1 x keyboard, 1 x mouse, 1 x serial, 4 x USB 2.0 (plus 4 x internal USB 2.0), 2 x LAN, 1 x management LAN
Dimensions (mm) and weight	427.5W x 722.0D x 43.5H* (1U) *486.5W x 821.9D x 43.9H (including front bezel, guide rails, and protruding objects) Max: 21kg
Operating systems	Microsoft® Windows Server 2003, Standard/Enterprise Editions (SP1 or late) Microsoft® Windows Server 2003 R2, Standard/Enterprise Editions Microsoft® Windows Server 2003 R2, Standard/Enterprise x64 Editions Microsoft® Windows Server 2008 S1andard/Enterprise Microsoft® Windows Server 2008 Standard/Enterprise (x64) Microsoft® Windows Server 2008 R2 Standard/Enterprise Red Hat Linux™ - VMware®

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

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