

The compact rack server with maximum expandability

NEC EXPRESS5800/R120b-2

ENERGY EFFICIENT SERVER FOR THE MOST DEMANDING APPLICATIONS



PERFORMANCE

HIGH EXPANDABILITY

REMOTE MANAGEMENT

Compact form factor

The NEC Express5800/R120b-2 is a dual-socket compact server that delivers energy expenditure reduction for medium to large businesses. Along with greater performance and ease of remote management in a space-saving 2U rack form factor, it is a perfect match for the continuous operation in business critical environments. It provides an excellent combination of internal expandability and rack density.

Dedicated Server Virtualisation

Perfectly Suited for virtualisation and consolidation applications, databases, ERP/CRM. Valuable solution for workgroup environments or remote sites looking for space optimisation.

Achieve advanced management

The new version of Remote management integrated as standard provides enhanced RAS functionality while optimizing your management cost. It delivers remote access, monitoring, repair and upgrade independent from the operating system status.

HARDWARE SPECIFICATION

Performance

- Intel® Xeon® 32nm Dual/Quad/Six core processors (5600 series)
- Up to 192GB DDR3 1333Mhz RDIM memory capacity
- Supports x12 SAS 2.5" or x6 SATA 3.5" HotSwap HDDs
- PCI-e2 (x4) slot dedicated to RAID controller
- High efficiency PSU 80+

High expandability

- New RAID controller (128/256Mo cache, RAID 0,1,5,6,10,50) with optional battery backup unit
- 3.5" Bay for optional Single Tape drive
- 5 PCI slots available (3 Low-profile and 2 Full-height). Up to 5x PCI-Express 2.0 with optional riser
- Redundant HotSwap power supply and fans

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-2
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/x8 SDDC, sparing*, mirroring <i>*The models adopting Xeon E5503 and E5506 do not support memory sparing</i> Up to 192GB with 12 x 16GB DIMMs
Maximum storage	2.5-inch SAS: 7.2 TB (12 x 600GB) - 2.5-inch SATA: 6 TB (12 x 500GB) 2.5-inch SSD: 600 GB (12 x 50GB) - 3.5-inch SATA HDD: 12 TB (6 x 2TB)
Removable media	1 bay for optical disk drive - 1 bay for internal backup device
Expansion slots*	Total: 5 slots available** 1 x PCI Express 2.0 (x8 lane, x16 socket) 2 x PCI Express 2.0 (x8 lane, x8 socket) 1 x PCI Express 2.0 (x4 lane, x8 socket) 1 x PCI Express (x4 lane, x8 socket) <i>*The slot mix changes by installing optional riser cards **Plus one dedicated slot for a RAID controller</i>
Video	Integrated in Server Management Controller (32MB)
Network	2 x 1000BASE-T/100BASE-TX/10BASE-T
Power consumption	790VA / 780W (max.)
Redundant power supply	Optional, hot-plug
Redundant cooling fan	Optional, 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	445.2W x 721.2D x 86.7H* (2U) * 486.5W x 821.9D x 88.6H (including front bezel, guide rails, and protruding objects) Max: 31kg
Operating systems	Microsoft® Windows Server® 2003, Standard/Enterprise Editions (SP1 or later) Microsoft® Windows Server® 2003 R2, Standard/Enterprise Editions Microsoft® Windows Server® 2003 R2, Standard/Enterprise x64 Editions Microsoft® Windows Server® 2008 Standard/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 website at www.nec.com/express, or contact your local NEC sales office

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