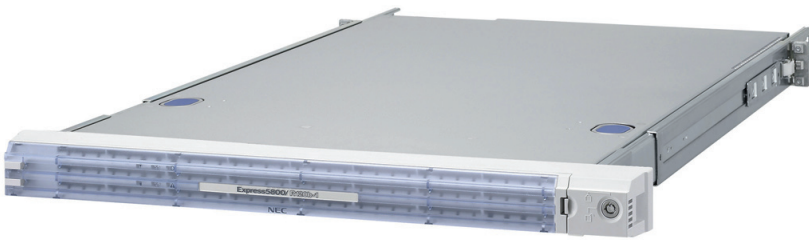


The 1U slim rack server

EXPRESS5800/R120b-1

ENERGY EFFICIENT SERVER OPTIMIZED FOR SPACE CONSTRAINED INSTALLATIONS



HIGH PERFORMANCE

ENERGY SAVING

SIMPLIFIED MANAGEABILITY

High density mounting

The EXPRESS5800/R120b-1 is a dual-socket 1U rack server enabling high-density mounting and combines outstanding performance, reliability, energy saving parts and green technology. Suitable for businesses seeking to maximize processing power in space constrained environments.

Ideal environments and applications

Mid-sized businesses, corporate datacenters and remote branch offices, Internet service providers, application service providers. Perfect for front-end applications for proxy, firewall, VPN, load balancing, HPC, and cache servers.

Advanced system management

R120b-1 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

- Powered by Intel® Xeon® 5600 series processors
- Up to 192GB DDR3L-1333 memory
- Two PCI Express 2.0 support
- High-speed 6Gb/s SAS HDD
- Up to three 3.5-inch SATA or six 2.5-inch SAS/SATA disk drives with RAID 0/1/5/6/10/50 capability

Energy saving

- 1.35v low-voltage DDR3L memory
- NEC engineered dynamic fan control technology
- 80 PLUS® Gold certified power supply achieving maximum power conversion rate of 92% to reduce AC/DC loss and increase power efficiency

Simplified manageability

- The EXPRESSBUILDER setup support tool provides step-by-step guidance via intuitive GUI and automates the setup process to reduce hands-on management.
- The ESMPRO management software and the EXPRESSSCOPE Engine 2 remote management controller interact to monitor, control and troubleshoot from a remote console.

HARDWARE SPECIFICATION

MODEL	EXPRESS5800/R120b-1
Processors	Number of processor: 1-2 Intel® Xeon® Processor X5690 (3.46GHz/6C/12MB)* Intel® Xeon® Processor X5675 (3.06GHz/6C/12MB)* Intel® Xeon® Processor X5650 (2.66GHz/6C/12MB) Intel® Xeon® Processor E5645 (2.40GHz/6C/12MB)* Intel® Xeon® Processor L5640 (2.26GHz/6C/12MB)* Intel® Xeon® Processor E5620 (2.40GHz/4C/12MB) Intel® Xeon® Processor E5606 (2.13GHz/4C/8MB) *2.5-inch disk drive model only
Memory	DDR3-1333 ECC registered low power DIMM (1/2/4/8GB), DDR3-1066 ECC registered low power DIMM (16GB) Max.: 192GB (12 x 16GB)
Maximum storage	3.5-inch SATA: 6TB (3 x 2TB) 2.5-inch SAS: 5.4TB (6 x 900GB), 2.5-inch SATA: 6TB (6 x 1TB), 2.5-inch SSD: 600GB (6 x 100GB)
Removable media	1 bay for optical disk drive
Expansion slots	Total: 2 slots available*, ** 1 x PCIe 2.0 x8 (x8 connector) 1 x PCIe 2.0 x16 (x16 connector) *The slot mix changes by installing optional riser card ** Plus one dedicated slot for a RAID controller
Video	Integrated in the Server Management Controller (32MB)
Network	2 x 1000BASE-T/100BASE-TX/10BASE-T + 1 x 100BASE-TX for management
Power consumption	710VA/700W (max., at 100V)
Redundant power supply	Optional, hot plug
Redundant cooling fan	Standard
Management	Server Management Controller (EXPRESSSCOPE Engine 2)
Interface	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 *Total 2 with optional port
Dimensions (W x D x H) and weight	427.5 x 722.0 x 43.5 mm / 16.8 x 28.4 x 1.7 in (1U) Max.: 21kg / 46.3lb
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, Standard Edition (SP1 or later) / Enterprise Edition (SP1 or later) 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® 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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