NEC Express5800 Server Series i Model

NEC Express5800/i120Ra-e1

Key Benefits

- ***Enhances energy and space efficiencies in Internet data centers***
- ***Features EXPRESSSCOPE® Engine 2 supporting DMTF CLI for extended remote management functionality***
- ***Evaluated major Linux distributions***
- ***Provides ease of maintenance for data center customers***

Designed specially for Internet data centers faced with concerns over ever increasing power consumption and footprints for their systems, the NEC Express5800/i120Ra-e1 dual-processor server helps improve the power and space efficiencies by featuring low-voltage processors in its lightweight, compact 1U chassis while delivering outstanding manageability and maintainability.

The EXPRESSSCOPE® Engine 2 management controller supports DMTF-compliant CLI*, which enables additional remote management functions on a wide variety of Linux distributions. The new features include collecting event logs and capturing an IP address, and improve remote server manageability for Linux users.
*Distributed Management Task Force

For easy servicing, the i120Ra-e1 features a display port on its front panel, allowing the direct connection of a console to individual servers from the front side of a cabinet. The front panel is also provided with a pull-out tab to keep server IDs and status information on it.

The i120Ra-e1 comes with guide rails for quick, tool-free installation and maintenance.

Features

- Up to two Multi-Core Intel Xeon low-voltage power-efficient processors
- Support for 3.5-inch Serial Attached SCSI and Serial ATA disk drives with RAID 5 capability as option
- The EXPRESSSCOPE Engine 2 server management controller enables system administrators to remotely monitor the health of server components and operate the server, regardless of its power and operating system status.
- A variety of Linux distributions, including RedHat, SUSE and Fedora, have been tested for operability (installation and start-up) on the i120Ra-e1.

NEC Express5800/i120Ra-e1

Hardware Specification

CPU

Dual-Core Intel® Xeon® Processor L5240
(3GHz/1333MHz FSB/6MB L2 Cache)

Quad-Core Intel® Xeon® Processor L5410
(2.33GHz/1333MHz/2x6MB L2 Cache)

Number of Processors	1–2
Chipset	Intel® 5100

Memory

Memory Type	DDR2-667 SDRAM DIMM with ECC, x4 SDDC, and sparing.
Std./Max.	1GB (512MB x 2)/24GB (4GB x 6)

Storage

Storage Type & Max. Capacity	3.5-inch SATA : 2.25TB (750GB x 3) 3.5-inch SAS[*1] : 900GB (300GB x 3)
RAID[*6]	3.5-inch SATA : RAID 0/1 (standard) RAID 5 (option)[*1] 3.5-inch SAS : RAID 0/1/5 (option)[*1]
Optical Drive	Option
Internal Disk Bays	3 (3.5-inch)
Expansion Slots	Total: 2 slots[*2] PCI Express x8 (FullHeight) : 1 PCI Express x4 (LowProfile) : 1

Network & Video

Network	1000BASE-T x 2 (100BASE-TX and 10BASE-T are supported.)
Video	Integrated in the Server Management Controller (8MB)

Deployment

Max. Power Consumption	341VA/335W
Redundant Power Supply	–
Redundant Cooling Fan	–
I/O Ports	Display x 2, Keyboard x 1, Mouse x 1, USB 2.0 x 4, Serial x 1, LAN x 2, Management LAN x 1
Dimensions (mm)	428W x 579D x 43H (1U)[*3]
Weight	Std. : 10.8kg Max. : 14.4kg

Supported OS

Microsoft® Windows Server® 2003, Standard / Enterprise editions[*4]
Microsoft® Windows Server® 2003 R2, Standard / Enterprise editions[*5]
Red Hat® Linux[*6]

[*1] Requires an optional RAID Controller
[*2] By replacing the standard riser card witn an optional Riser Card [N8116-19], a LowProfile PCI-Express x8 slot and a FullHeight 64bit/100MHz PCI-X slot become available.
[*3] 481W x 615D x 43H (including a stabilizer and protruding objects)
[*4] SP1 or later
[*5] Supports the x64 Editions
[*6] For RAID on Linux and Linux support status for the NEC Express5800 servers, go to the NEC website at: www.nec.co.jp/express, or contact your local NEC sales office.

NEC EXPRESS5800

For further information, please contact:

Empowered by Innovation

NEC

Cat. No.E08BS5