Empowered by Innovation NEC

NEC Express5800 Server Series iModel iR110a-1H

Reducing energy bills and the footprint of hardware is a challenge for data centers. NEC's iModel series is an energy and space-efficient solution that sets the sprawling server environment on the path to sustainable business development.

Highlights

■ Technology for energy-efficient operation

The iR110a-1H is powered by Intel® Core™ 2 Duo processor which delivers both faster multitasking and greater energy efficiency. Additionally, the model uses high efficiency power supplies to achieve green operations.

■ Half the size, double the density

The iR110a-1H is less than half the depth of conventional rack servers and allows a standard 19-inch rack to contain the models in both the front and rear, thus achieving twice the density of traditional data center arrays in the same footprint.

■ Disk storage options

The 2.5-inch disk drive model features four Serial Attached SCSI and Serial ATA hot-plug disk bays and supports RAID 5 and 6. The 3.5-inch Serial ATA disk drive model provides two disk bays and a maximum capacity of 2TB. The disk drives are front-replaceable on both models. The iR110a-1H also has the choice of Solid State Drive, which is low-voltage, silent, and shock-resistant flash memory based storage.

■ Designed for in-rack serviceability

In addition to front interface ports for ease-of-maintenance, the iR110a-1H features status LED indicators on its front panel to make it possible to see server health at a glance. The model collaborates with an optional disk array controller to signal disk access and status.

The iR110a-1H has a pull-out tab on which to note individual server IDs and status information.

■ Remote management

The integrated EXPRESSSCOPE Engine management controller alerts administrators to failures in the primary components, so that they can arrange remedial actions immediately.

With support for DMTF-compliant CLI, EXPRESSSCOPE Engine flexibly interacts with 3rd party management software in user environments.

Innovation for energy-efficient data center operations

Advances in data processing bring business organizations the capacity to process growing volumes of data. However, this increased computing capacity drives up the power consumption of servers and storage, resulting in ever increasing energy costs. Data centers, in particular, face enormous challenges in reducing the cost to power and cool IT equipment while meeting the increasing demand for data processing and storage.

With NEC's power-efficient solution, data centers can make great strides in energy cost management. NEC's iR110a-1H provides uncompromising energy efficiency and helps minimize the percentage of energy cost in total cost of ownership while maximizing server performance in a half-sized form factor.

Product Specifications

Processors
Intel® Core™ 2 Duo Processor T9400 (2.53GHz/6MB L2 Cache)
Intel® Core™ 2 Duo Processor P8400 (2.26GHz/3MB L2 Cache)

Memory
Up to 16GB (4 x 4GB) of DDR2-667 SDRAM DIMM with ECC and x4 SDDC

Maximum storage
3.5-inch SATA : 2TB (2 x 1TB)
2.5-inch SAS*1 : 1.2TB (4 x 300GB)
2.5-inch SATA : 2TB (4 x 500GB)*2

Removable media
Option

Expansion slots
1 x PCI Express X8

Video
Integrated in the Server Management Controller (32MB)

Network
2 x 1000BASE-T(100BASE-TX and 10BASE-T are supported.)

Power consumption
47VA/46W up to 161VA/160W

Redundant power supply

Redundant cooling

External interfaces
1 x VGA, 1 x keyboard, 1 x mouse, 2 x USB 2.0, 1 x serial
2 x LAN, 1 x management LAN

Dimensions (mm) and weight
428W x 356D x 43H (1U)* Std: 7kg Max: 8kg
*428W x 370D x 43H (including protruding objects)

Operating systems
Red Hat Enterprise Linux ES 4.7 or later (EM64T)
Red Hat Enterprise Linux 5.2 or later (EM64T)

*1 Requires the optional RAID controller
*2 200GB (4 x 50GB) with Solid State Drives (SATA)

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

NEC EXPRESS5800

For further information, please contact:

• Intel and Intel Core are trademarks or registered tradrmarks of Intel Corporation in the U.S. and other countries.
• Linux is a trademark of Linus Torvalds.
• Red Hat is a registered trademark of Red Hat, Inc. in the U.S.
• All other products, brands, or trade names used in this document are trademarks or registered trademarks of their respective holders.
• Specifications are subject to change without notice.

Cat. No.E99-09100003E

Empowered by Innovation