NEC Sigmablade_B140a-T SERVER User Guide

http://www.manuallib.com/nec/sigmablade-b140a-t-server-user-guide.html

The NEC SIGMABLADE B140a-T is an innovative four-socket blade server based on the Intel Xeon 7000 Series. The B140a-T blade server is a powerful server benefiting from performance capacity for processing capability up to sixteen cores.The NEC blade server is designed for application compatibility and high availability in a choice of configurations. With very high quality ratings the SIGMABLADE B140a-T server can outlast other servers, delivering the best overall total cost of ownership and excellent value. Includes up to eight I/O gigabit ports and two additional Fibre Channel ports for increased bandwidth to meet the I/O demands in virtualized environments.

SIGMABLADE B140a-T

BLADE SERVER

About NEC SIGMABLADE R140a-T

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Key Benefits:
• High Performance
• Leverages Intel processors
• Higher throughput performance
• Performance optimized for virtualized environments
• Peak performance efficiency for standard & clustered applications, databases, and hypervisor platforms
• Designed for Virtualization
• High performance with fast Intel processors
• More memory space; up to 128GB
• Extended I/O capacity; up to eight 1GeBit Ethernet ports
• Quality and Value
• NEC delivers high quality servers optimizing latest Intel technology
• Servers designed to run at maximum performance over the life of its service
• Minimal total cost of ownership

Overview:

Taking advantage of performance optimization for virtualized environments using the new Intel processors, the SIGMABLADE B140a-T can achieve significant overall throughput performance improvement over the previous models. Peak performance enables greater efficiency to run your standard applications, clustered applications, databases, and popular hypervisor platform solutions making your data center dynamic, manageable, and energy efficient in the most extensive virtualized environments.

For more efficient management, NEC Includes server utilities for centralized administration, with easy-to-use EXPRESSBUILDER software for configuration and operating system installation utilities. Remote management capability is included through NEC's EXPRESSSCOPE management solution.

Powered by Intel® Xeon®

Empowered by Innovation NEC

Specifications

SIGMABLADE-B140a-T

Processor	Standard 1 /up to 4 Intel® Xeon® Processor 7000 series
Model # (frequency, core)	E7220(2.93G/4core/L2 8MB/L3 12MB), E7450(2.4G/4core/L2 9MB/L3 12MB), E7310(1.6G/4core/L2 4MB/L312MB)
Chipset	Intel® 7300 Chipset
Memory	16x DDR2-667 Registered DIMM (Standard 2GB, Max. 128GB)
Hard Disk Storage Type Bays RAID	 SAS HDD 4x (2.5" HDD, Hot-Swap) Standard SAS RAID 0/1,5
Network	4x 1000BASE-T + 1x 100BASE-TX (Management Port)
Expansion Slots & Cards	• 2x Mezzanine Type-1 slot x1 • 2x Mezzanine Type-2 slot x1 • 2ch 1Gb Ethernet card (Optional) • 2ch 10Gb Ethernet card (Optional) • 4ch 1Gb Ethernet card (Optional) • 2ch Fibre Channel card (Optional)
Interface	SUV Connector (Serial x1, VGA x1, USB x2) x1 (when SUV cable is connected)
Server Management	NEC EXPRESSSCOPE®Engine 2
Video Memory	Integrated into the chipset (2MB)
Power Consumption (Maximum)	E7220 8.00W(DC)/ E7450 8.00W(DC)/ E7310 8.00W(DC)
Chassis Compatibility	NEC H-Chassis
Supported OS	• Microsoft® Windows Server™ 2003 R2 and 2008 Standard / Enterprise Edition (32-bit) • Microsoft Windows Server 2003 R2 and 2008 Standard / Enterprise Edition (64-bit) • Microsoft Windows Server 2008 Standard / Enterprise • Microsoft Windows Server 2008 Standard (x64) / Enterprise (x64) • Red Hat Enterprise Linux ES4.7(x86) / Red Hat Enterprise Linux ES4.7(EM64T) • Red Hat Enterprise Linux AS4.7(x86) / Red Hat Enterprise Linux AS4.7(EM64T) • Red Hat Enterprise Linux 5.3(x86) / Red Hat Enterprise Linux 5.3(EM64T) • Red Hat Enterprise Linux Advanced Platform 5.3(x86) • Red Hat Enterprise Linux Advanced Platform 5.3(EM64T) • VMware ESX 3.01 • VMware ESX 3.5 • VMware vSphere
Operating Environment / Compliance Environmental Specifications	Operating Temperature: 10°to 35°C (50°to 95°F) Compliance FCC, C-Tick, BSMI (Taiwan), UL, CCC, EMI (Korea), China RoHS

[1] Not supported if clean-installed by DeploymentManager. (DeploymentManager is not bundled)
[2] On-board disk array is not supported by Linux.

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