

# NEC B120a SERVER User Guide

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# SIGMABLADE B120a-d

## BLADE SERVER

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#### Key Benefits

##### High Performance

- Runs significantly faster based on throughput performance over the previous models
- Includes Intel's Quick Path Interconnect (QPI) technology to increase performance

##### Designed for Virtualization

- Increased memory capacity, up to 96GB
- Expanded I/O gigabit & fibre channel bandwidth
- No hard disks to lower cost of virtualization
- Integrated system management

##### Quality and Value

- Modular design for simpler maintenance
- Standard warranty is 3 years
- Competitively priced

#### Overview

The NEC SIGMABLADE B120a-d features twelve memory slots with enhanced memory performance, including Intel's Quick Path Interconnect (QPI) technology to increase performance with DDR3-1066 memory support for faster access. Inclusion of PCI EXPRESS 2.0 with high speed bandwidth offers twice the capacity as previous technology.

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.



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## Specifications

SIGMABLADE-B120a-d	
Processor	1 or 2 Intel Xeon Processor 5500 series
Model # (frequency, core)	X5570 (2.93GT/4Core), X5550 (2.66G/4Core), X5520 (2.26G/4Core), E5504 (2.00G/4Core), L5502(1.86G/2Core)
Interface	QPI (19.2GB/s-25.6GB/s @ per QPI)
Chipset	Intel 5520 Chipset
Memory	12x DDR3-1066 Registered DIMM (Standard 2GB, Max. 96GB)
Hard Disk Storage Type	Diskless
Expansion Slots & Cards	<ul style="list-style-type: none"> <li>• Mezzanine Type-1 slot x1/Mezzanine Type-2 slot x1</li> <li>• 2ch 1Gb Ethernet card (Optional)</li> <li>• 2ch 10Gb Ethernet card (Optional)</li> <li>• 4ch 1Gb Ethernet card (Optional)</li> <li>• 2ch Fibre Channel card (Optional)</li> </ul>
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)
Network	2x 1000BASE-T + 1x 100BASE-TX (Management Port)
Power Consumption (Maximum)	X5570 437W(DC)/ X5550 433W(DC)/ L5520 343W(DC)/ E5502 287W(DC)/ E55004 319W(DC)
Chassis Compatibility	NEC H-Chassis and NEC M-Chassis
Supported Operating Systems	<ul style="list-style-type: none"> <li>• Microsoft® Windows Server™ 2003 R2 and 2008 Standard / Enterprise Edition (32-bit)</li> <li>• Microsoft Windows Server 2003 R2 and 2008 Standard / Enterprise Edition (64-bit)</li> <li>• Microsoft Windows Server 2008 Standard / Enterprise</li> <li>• Microsoft Windows Server 2008 Standard (x64) / Enterprise (x64)</li> <li>• Red Hat Enterprise Linux ES4.7(x86) / Red Hat Enterprise Linux ES4.7(EM64T)</li> <li>• Red Hat Enterprise Linux AS4.7(x86) / Red Hat Enterprise Linux AS4.7(EM64T)</li> <li>• Red Hat Enterprise Linux 5.3(x86) / Red Hat Enterprise Linux 5.3(EM64T)</li> <li>• Red Hat Enterprise Linux Advanced Platform 5.3(x86)</li> <li>• Red Hat Enterprise Linux Advanced Platform 5.3(EM64T)</li> <li>• VMware ESX 3.01</li> <li>• VMware ESX 3.5</li> <li>• VMware vSphere</li> </ul>
Operating Environment	Operating Temperature: 10°to 35°C (50°to 95°F)
Compliance	FCC, UL, C-Tick, BSMI (Taiwan), CCC, ICES-3/CSA C108.8, CE Mark, CB Report

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**Express5800**

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