

Model	A1040*1		A1160	
Model	4-socket model		Scalable model	
	Intel® Xeon® Processor E7440	Intel® Xeon® Processor X7460	Intel® Xeon® Processor E7440	Intel® Xeon® Processor X7460
Processors	Clock Speed	2.40 GHz	2.66 GHz	2.40 GHz
	L2 Cache	3MB x 2	3MB x 3	3MB x 2
	L3 Cache	16MB		3MB x 3
	Processors/Node	4		
	Max. Processors/System	4 (1 node)		16 (4 nodes)
Memory	Type	DDR2-667 FB-DIMM with ECC, SDDC, mirroring (hot add)*2		
	Max. Capacity/Node	128GB (32 x 4GB)		
	Max. Capacity/System	256GB (8GB x 32)		1TB (8GB x 128)
Storage	Type	2.5-inch SAS		
	Max. Capacity/Node	1.8TB (6 x 300GB)*3		
	Max. Capacity/System	1.8TB (6 x 300GB)*3		7.2TB (24 x 300GB)*3
	Hot Plug	Supported		
	Controller	SAS (integrated in a dedicated internal PCI-Express slot)		
	RAID	RAID 0/1/5		
	Optical Drive	DVD Multi Drive*4		
	FDD	Optional (external 2-mode FDD)*5		
Expansion Slots	6 x PCI Express (x8) (hot plug)			
Interface	2 x LAN ports (RJ45) [1000BASE-T (100BASE-TX/10BASE-T)], 4 x USB (2 x front, 2 x rear)*6, 1 x Serial (rear, DSUB9) 1 x Management LAN (100BASE-TX), 1 x VGA (rear, Mini D sub 15)			
Redundant Power Supply	AC 200V-240V (hot plug)			
Redundant Cooling Fan	Hot plug			
Form Factor	4U rack mount per node			
Dimensions (WxDxH)	483 x 770 x 176 mm per node			
Max. Weight	44kg/node			
OS Supported	Microsoft® Windows Server® 2003 R2, Enterprise Edition (x86 SP2, x64 SP2) Microsoft® Windows Server® 2003 R2, Datacenter Edition (x86 SP2, x64 SP2) Microsoft® Windows Server® 2008 Enterprise (x64) Microsoft® Windows Server® 2008 Datacenter (x64) VMware ESX 4.0 / VMware ESX 3.5 RedHat® Enterprise Linux 5 (EM64T) Citrix XenServer 5.0*7			

*1 Upgradable to the A1160 scalable model. Select the Upgrade Option.
 *2 Requires an optional memory module.
 *3 1GB means 1000*bytes.
 *4 Write software is not provided.
 *5 Required for maintenance.
 *6 Used for a keyboard/mouse.
 *7 Will be supported later.

Expandable Enterprise Server

NEC Express5800/Scalable HA Servers

Enterprise Servers with
 Unsurpassed Reliability,
 Availability,
 and Scalability



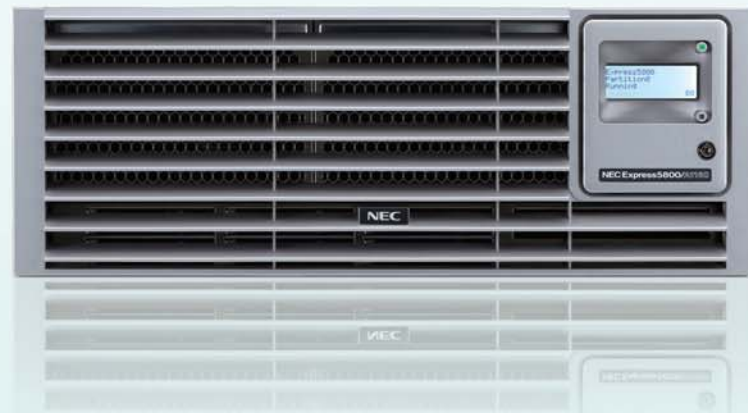
NEC Express5800
<http://www.nec.com/express/>

For further information, please contact:

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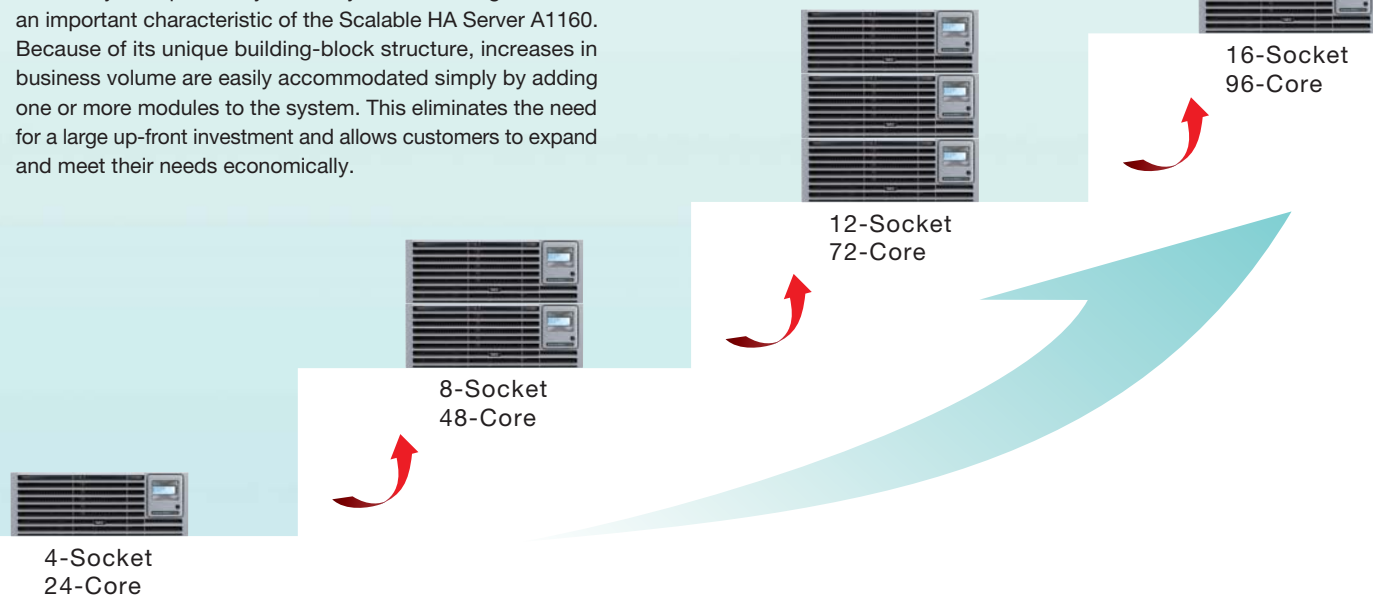
Scale Up As Your Business Grows

NEC's rich heritage of supercomputer and mainframe computing contributes to the high quality, reliability, and performance of our top-of-class NEC Express5800/Scalable HA Servers. A modular building block structure allows servers to be stacked in a rack to meet increasing demands of business-critical applications. The A1160 model allows IT managers to start small with minimal expense and scale up seamlessly to four nodes. With high availability technology for uninterrupted operations, the Scalable HA Servers are an ideal platform for mission-critical applications.



Respond Flexibly to Business Expansion

The ability to expand a system as your business grows is an important characteristic of the Scalable HA Server A1160. Because of its unique building-block structure, increases in business volume are easily accommodated simply by adding one or more modules to the system. This eliminates the need for a large up-front investment and allows customers to expand and meet their needs economically.



High-performance and High-scalability

Featuring Intel's high-performance Xeon® 7400 series processors and an NEC-developed chipset, the Scalable HA Servers deliver mainframe-class performance and scalability. NEC's unique chipset allows the A1160 to scale up to 16 sockets, 96 cores, 1TB memory and 24 I/O slots.

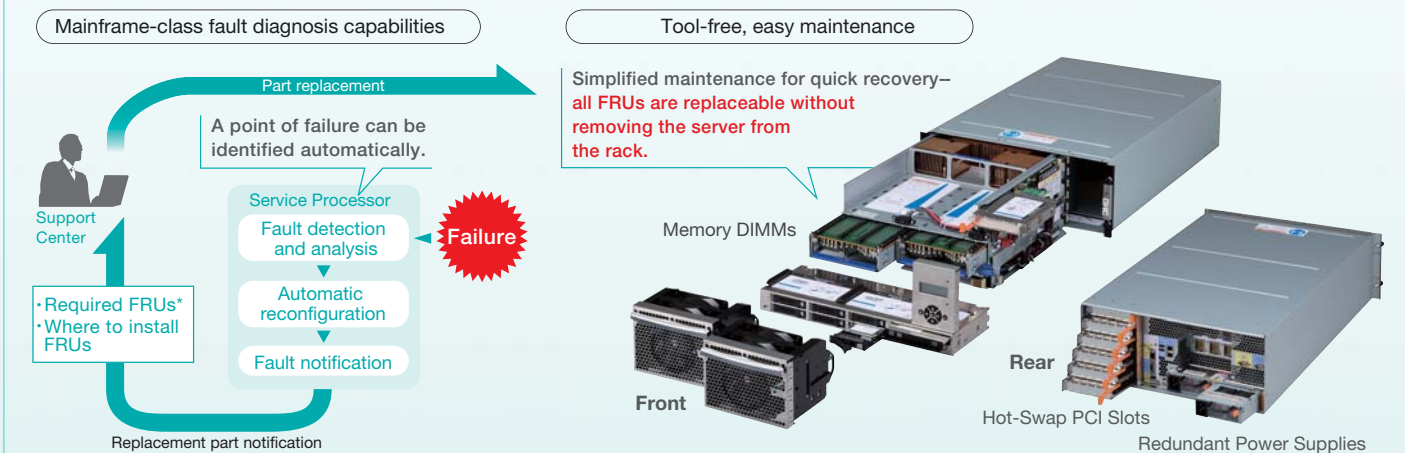


Reliability, Availability, Serviceability

Leveraging its heritage of mainframe computing, NEC designed the Express5800/Scalable HA Servers with superior fault-tolerant functions to ensure business continuity. In addition to Error Checking and Correction (ECC) for data paths and memory, the Scalable HA Servers feature comprehensive support services including remote monitoring and online maintenance. These RAS features help minimize downtime and make it easy to restore a system without interrupting operations. Subsystems (memory, I/O cards, power supplies, fans, hard disk drives) are all replaceable for straightforward maintenance.

- Redundant subsystems
- A specially engineered chipset offering ECC protection for data paths
- Dynamic maintenance of mirrored memory cards
- Hot-plug I/O slots (only with Windows® installed)

Eliminate Lost Business Opportunities



The dedicated service processor provides superior diagnostic capabilities. Front and rear accessibility minimizes downtime in the event of a failure.

*Field Replaceable Units

Supported OS

Microsoft® Windows Server® 2008/Microsoft® Windows Server® 2003

VMware ESX 4.0/VMware ESX 3.5/Citrix XenServer 5.0

RedHat Enterprise Linux 5

EXPRESSSCOPE® Engine SP

NEC's EXPRESSSCOPE® Engine SP remote management controller and ESMPRO server management software interact to monitor and control a managed server from a remote console-regardless of power or OS state (power on/off, BIOS startup, OS stall). Other reliability features include proactive alerting and error logging from a remote Web browser.

