

Take your IT infrastructure to the next level with NEC's proven server platform

Improved compute performance with next-generation microprocessors

The latest Express5800 servers are powered by Intel® Xeon® processors based on Intel® QuickPath Interconnect (QPI). This high-speed, point-to-point interconnect improves processor and memory performance, allowing the Express5800 servers to run complex applications and achieve optimized performance for virtualized environments.

Easy to set up and manage

NEC's server management package frees administrators from demanding on-site tasks. The EXPRESSBUILDER setup support tool automates the installation of multiple servers in different physical locations. ESMMPRO management software works in tandem with the EXPRESSSCOPE Engine 2 baseboard management chipset to enable remote operation and troubleshooting, helping to reduce management complexity while improving business efficiency.

An energy-saving infrastructure to make your IT green

Minimizing the environmental impact of products and services is one of the top priorities for today's businesses. While ensuring utmost performance and availability, the Express5800 server family provides comprehensive green IT technologies, including power control functionality that reduces the power consumption of each server and increases the number of servers installed in a rack for server-dense data center environments.

Effective cooling

NEC makes power-efficient, silent server operations a reality through its optimized server design. The Express5800 server family uses lower power consumption components and also provides adequate airflow to eliminate hot spots and automatically adjusts cooling for changes in operating temperatures. NEC's server engineering expertise ensures energy cost savings and stable server operations.

Optional Products

1. Secure and reliable disk storage

RAID controllers
NEC provides preinstalled and optional RAID controllers with a choice of high-speed Serial ATA and highly reliable Serial Attached SCSI hard disk drives to meet your specific storage needs.

RAID management utility
NEC's Universal RAID Utility features simple and intuitive graphic interfaces that allow users to configure and manage RAID settings without any special knowledge.

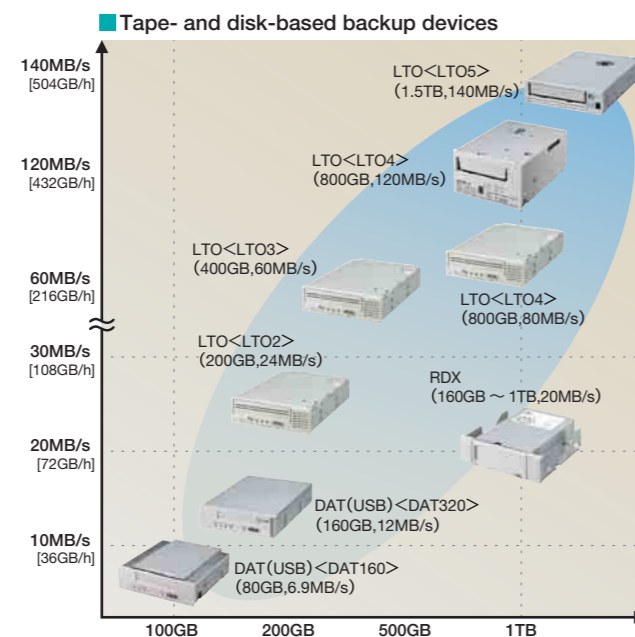
Disk array units
NEC enables you to optimize your disk storage with a choice of competitively priced SATA or high-performance SAS disk drives for its disk array units. A 2U-height disk array unit allows up to 12 disk drives with RAID 1, 5 and 6 capability, and works as shared storage for clustered servers.

2. A compact console for easy server maintenance

A rack-mountable all-in-one console allows system managers to access multiple servers in a rack. A 17-inch monitor (SXGA), keyboard, mouse and 8-port server switch unit are all included in a compact 1U form factor. Pulling the console out from the rack lifts up the monitor and keyboard.

3. Backup devices for reliable data storage

Protecting business data as a corporate information asset is vital for every organization. Losing data costs organizations time and money for system recovery, which results in significant lost business opportunities. NEC's Express5800 servers support large-capacity internal tape devices for long-term data archiving as well as removable disk cartridges for high-speed backup and immediate system recovery.



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

Copyright © NEC Corporation 2011. All rights reserved. **NEC EXPRESS5800**
 • Microsoft, Windows, and Windows Server are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
 • Celeron, Intel, Intel Atom, Intel Core, Pentium, and Xeon are trademarks of Intel Corporation in the U.S. and/or other countries.
 • Linux is a registered trademark of Linus Torvalds.
 • Red Hat and Red Hat Enterprise Linux are trademarks or registered trademarks of Red Hat, Inc. in the US and other countries.
 • VMware is a registered trademark or trademark of VMware, Inc. in the United States and/or other jurisdictions.
 • 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.




NEC Express5800 Servers

Drive your business agility in today's rapidly evolving IT environments






For further information, please contact:

General-Purpose Standard Servers





2-Socket		1-Socket	
T120b-M New Intel® Xeon® processor X5675 (3.06 GHz) X5650 (2.66 GHz) E5645 (2.40 GHz) E5620 (2.40 GHz)		T120b-E New Intel® Xeon® processor X5650 (2.66 GHz) E5645 (2.40 GHz) E5620 (2.40 GHz)	
Max. memory 192 GB Max. storage* 9.6 TB 2.5-inch SAS 8 TB 2.5-inch SATA 16 TB 2.5-inch SSD 1.6 TB Network 1000BASE-T(x2) <small>* Requires optional HDD cages.</small>		Max. memory 192 GB Max. storage* 4.8 TB 2.5-inch SAS 4 TB 2.5-inch SATA 8 TB 2.5-inch SATA 800 GB Network 1000BASE-T(x2) <small>* Requires optional HDD cages.</small>	
			
GT110b Intel® Xeon® processor X3430 (2.40 GHz) Intel® Pentium® processor G6950 (2.80 GHz) Intel® Celeron® processor G1101 (2.26 GHz)		Max. memory 16 GB Max. storage 1.2 TB 2.5-inch SAS* 2 TB 2.5-inch SATA 8 TB 2.5-inch SATA 400 GB Network 1000BASE-T(x1) <small>* Requires an optional HDD cage.</small>	
			




Tower

Fault Tolerant Servers ft series

Windows Model		Linux Model ,VMware Model	
Windows Server® 2008 R2 model R320b-M4 Intel® Xeon® processor X5670 (2.93 GHz)		Windows Server® 2008 (32bit) model R320a-M4 Intel® Xeon® processor X5570 (2.93 GHz)	
R320a-E4 Intel® Xeon® processor E5504 (2 GHz)		R320a-E4 Intel® Xeon® processor E5504 (2 GHz)	
Max. memory 96 GB Max. storage 4.8 TB Network 1000BASE-T(x2)		Max. memory 48 GB Max. storage 4.8 TB Network 1000BASE-T(x2)	
Microsoft® Windows Server® 2008 R2 Enterprise (Hyper-V supported)		Microsoft® Windows Server® 2008 Enterprise (32bit) SP2 Red Hat® Enterprise Linux® 5.4/5.5 Advanced Platform (EM64T) VMware vSphere™ 4 Update 2	
			
Tower Conversion Kit The tower configuration is ideal for customers considering a single server installed in an office environment. Use the Tower Conversion Kit to install ft series as tower models.			
			

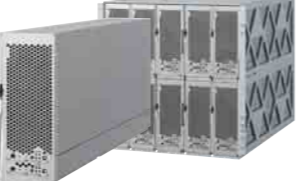

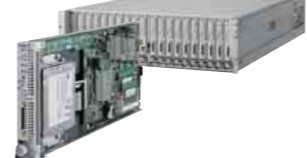

Thin Client Terminals

US300c		US110c New		US100	
High performance and highly extensive terminal with dual monitor and multimedia capabilities		Windows® CE 6 support with dual monitor capability		Quick startup and PC-quality multimedia support	
OS Windows® Embedded Standard 2009 Weight 670 g Protocol RDP7.0 ICA11.2		OS Windows® CE6.0 Weight 420 g Protocol RDP6.0 ICA10.17		OS Unix-based OS Weight 420 g Protocol RDP5.2 ICA8.0	
					
53La Powerful and reliable workstation in a 93mm slim form factor Intel® Core™ i5 processor 660 (3.33GHz) Intel® Core™ i3 processor 540 (3.06GHz) Intel® Pentium® processor G6950 (2.80GHz)					
					









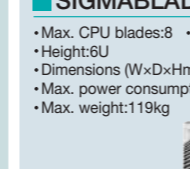
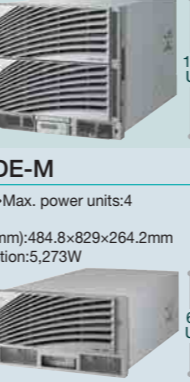
4-Socket		2-Socket	
R140b-4 Intel® Xeon® processor X7560 (2.26 GHz) E7530 (1.86 GHz) E7520 (1.86 GHz)		R120b-2 New Intel® Xeon® processor X5690 (3.46 GHz)/X5687 (3.60 GHz) X5675 (3.06 GHz)/X5650 (2.66 GHz) L5640 (2.26 GHz)/E5620 (2.40 GHz) E5606 (2.13 GHz)/E5503 (2 GHz)	
Max. memory* 512 GB Max. storage 4.8 TB 2.5-inch SAS 4 TB 2.5-inch SATA 3 TB 2.5-inch SSD 800 GB Network 1000BASE-T(x4) <small>* Requires the optional memory backboards.</small>		Max. memory 192 GB Max. storage 7.2 TB 2.5-inch SAS* 6 TB 2.5-inch SATA 12 TB 2.5-inch SATA 1.2 TB Network 1000BASE-T(x2) <small>* Requires optional HDD cages.</small>	
			
R120b-1 New Intel® Xeon® processor X5690 (3.46 GHz)/X5675 (3.06 GHz) X5650 (2.66 GHz)/E5645 (2.40 GHz) L5640 (2.26 GHz)/E5620 (2.40 GHz) E5606 (2.13 GHz)		Max. memory 192 GB Max. storage 3.6 TB 2.5-inch SAS 3 TB 2.5-inch SATA 6 TB 2.5-inch SATA 600 GB Network 1000BASE-T(x2)	
			

Rack-optimized

Energy Saving Server ECO CENTER

2-Socket		1-Socket	
Modular server E120b-M Intel® Xeon® processor L5640 (2.26 GHz) L5630 (2.13 GHz)		Rack server E120b-1 New Intel® Xeon® processor E5645 (2.40 GHz)* L5640 (2.26 GHz)* L5630 (2.13 GHz) <small>* 1.35-inch disk drive model only *2 Consolidated power supply unit model only</small>	
Max. memory 96 GB Max. storage 320 GB 2.5-inch SAS 100 GB Network 1000BASE-T(x2)		Max. memory 64 GB Max. storage 4.8 TB 2.5-inch SAS 4 TB 2.5-inch SATA 8 TB 2.5-inch SSD 800 GB Network 1000BASE-T(x2)	
			
Modular server E110b-M Intel® Atom™ processor N450 (1.66GHz)		Rack server iR110a-1H Intel® Core™2 Duo processor T9400 (2.53 GHz) P8400 (2.26 GHz)	
Max. memory 2 GB Max. storage 500 GB 2.5-inch SATA 100 GB Network 1000BASE-T(x2)		Max. memory 16 GB Max. storage 1.2 TB 2.5-inch SAS 2 TB 2.5-inch SATA 2 TB Network 1000BASE-T(x2)	
			

High-Density Blade Servers SIGMABLADE

4-Socket		2-Socket				Optional Blade	
B140a-T Intel® Xeon® processor E7220 (2.93 GHz) E7450 (2.40 GHz) E7310 (1.60 GHz)		B120a Intel® Xeon® processor X5550 (2.66 GHz)/L5520 (2.26GHz) E5504 (2 GHz) E5502 (1.86 GHz)		B120b New Intel® Xeon® processor X5670 (2.93GHz)/X5650 (2.66GHz) E5645 (2.40GHz)/L5640 (2.26GHz) E5606 (2.13GHz)		B120b-h New Intel® Xeon® processor X5680 (3.33GHz)/X5650 (2.66GHz) E5645 (2.40GHz)/L5640 (2.26GHz) L5630 (2.13GHz)	
Max. memory 64 GB Max. storage 1.2 TB Network 1000BASE-X(x4)		Max. memory 128 GB Max. storage 1.2 TB Network 1000BASE-X(x2)		Max. memory 128 GB Max. storage 1.2 TB Network 1000BASE-X(x2)		Max. memory 192 GB Max. storage 200 GB Network 10G BASE-KR(x2)	
							
		B120b-d Intel® Xeon® processor X5670 (2.93 GHz) L5640 (2.26 GHz)		B120a-d Intel® Xeon® processor X5550 (2.66 GHz)/L5520 (2.26GHz) E5504 (2 GHz) E5502 (1.86 GHz)		Max. memory 192 GB Network 1000BASE-X(x2)	
							
						Storage and I/O Blade AD106b New Max. storage 3.6 TB 2.5-inch SAS 3 TB 2.5-inch SATA 600 GB Network 1000BASE-X(x2)	
							
						Tape Blade AT101a New LTO4 800GB max. (uncompressed data) Network 1000BASE-X(x2)	
							
						Blade Enclosures SIGMABLADE-H v2 •Max. CPU blades:16 •Max. power units:6 •Height:10U •Dimensions (W×D×Hmm):483×823×442mm •Max. power consumption:10,828W •Max. weight:209kg SIGMABLADE-M •Max. CPU blades:8 •Max. power units:4 •Height:6U •Dimensions (W×D×Hmm):484.8×829×264.2mm •Max. power consumption:5,273W •Max. weight:119kg	
							

* Supported by SIGMABLADE-H v2 only

Scalable HA Server

8-Socket/4-Socket	
A1080a-E (8-socket model) A1080a-D (4-socket dual server model) A1080a-S (4-socket model) High-performance enterprise-class servers for business-critical applications	
Intel® Xeon® processor X7560 (2.26 GHz)/L7555 (1.86 GHz)/X7550 (2 GHz) L7545 (1.86 GHz)/X7542 (2.66 GHz)/E7540 (2 GHz) E7520 (1.86 GHz)* <small>* A1080a-E does not support E7520</small>	
Max. memory 1 TB Max. storage 7.2 TB/3.6 TB Network 1000BASE-T(x2)	
	

	Model	Processor	Memory Max.	Internal Storage		OS Supported	Form Factor	Hot-plug Disk Bays	Redundancy		
				Disk size	Max. capacity				Power	Fan	
Standard Server (Tower)	1-Socket	GT110b	16GB	2.5 inch	SATA: 2TB SAS: 1.2TB	-	Tower or 4U rack	-	-	-	
		3.5 inch		SATA: 8TB							
	2-Socket	T120b-E	Intel® Xeon® processor X5650 (2.66 GHz, 6C/12T, 12MB L3 cache) E5645 (2.40 GHz, 6C/12T, 12MB L3 cache) E5620 (2.40 GHz, 4C/8T, 12MB L3 cache) E5606 (2.13GHz, 4C/4T, 8MB L3 cache)	192GB	2.5 inch	SATA: 4TB SAS: 4.8TB	-	Tower or 5U rack	○	○ (Option)	○ (Option)
			3.5 inch		SATA: 8TB						
Standard Server (Rack)	2-Socket	R120b-1	192GB	2.5 inch	SATA: 3TB SAS: 3.6TB	Windows Server 2003 Windows Server 2008 Red Hat Linux	1U rack	○	○ (Option)	○	
				3.5 inch	SATA: 6TB						
	2-Socket	R120b-2	192GB	2.5 inch	SATA: 6TB SAS: 7.2TB	-	2U rack	○	○ (Option)	○ (Option)	
				3.5 inch	SATA: 12TB						
4-Socket	R140b-4	Intel® Xeon® processor X7560 (2.26GHz, 6C/12T, 24MB L3 cache) E7530 (1.86GHz, 6C/12T, 12MB L3 cache) E7520 (1.86GHz, 4C/8T, 16MB L3 cache)	512GB	2.5 inch	SATA: 4TB SAS: 4.8TB	-	4U rack	○	○	○	