



NEC EXPRESS5800/R140a-4



The high-density & performance enterprise server

Scalable performance and expandable capacity with proven enterprise-class reliability for mission-critical enterprise

Scalable enterprise performance

Expansive capacity

Advanced administration

- High-end rack-optimized enterprise server featuring up to 24 processor cores from the latest Intel® Xeon® MP processor 7400 serie in a 4U server.
- Designed for Space-constrained corporate data centers and service providers which require resource performance (transactional processing data base, virtualization/consolidation/migration, ERP/CRM) for Microsoft® Windows, Linux® and VMware® environments.
- To enhance RAS (Reliability, Availability and Serviceability) functionality, the R140a-4 use Server remote management suite «EXPRESSSCOPE Engine 2 » and “Dianascope” management software.

www.nec-computers.com

Hardware Specification

Scalable enterprise performance

- Up to **4 Intel® Xeon® Quad and Six core CPUs**
- **7 PCI Express** slots including 2 Hot Plug
- On-board **RAID 6** technology

Expansive capacity

- Up to **128/256GB*** DDR2 667 FB-DIMM
- Support **2.5" SAS HotSwap** HDDs
- Quad integrated NIC (2 on MOBO + 2 on I/O Riser)

*contact us for availability

Advanced administration

- Integrated **NEC EXPRESSSCOPE® Engine 2** technology for remote management
- Dedicated LAN for more **secure management operation**
- **ESMPRO Suite** and **ExpressBuilder**, Administration and installation/configuration support tool

DESIGN	Form Factor 4U Rack	
PROCESSORS	Dual-Core Intel® Xeon® Processor E7220 (2.93GHz /8MB /1066MHz)	
	Quad-Core Intel® Xeon® Processor E7310 / E7420 / E7430 / E7440 (up to 2.4GHz /16MB /1066MHz L2 Cache)	
	Six-Core Intel® Xeon® Processor E7450 / X7460 (up to 2.66GHz /16Mo /1066MHz) No. of CPU 6 Cache L3 8/16MB	
ARCHITECTURE	Intel® EM64T	Supported
	Chipset	Intel® 7300
	FSB	1066MHz
MEMORY	Type	DDR2-667 FB-DIMM ECC, Mirroring, On-line Sparing
	Min	1GB
	Max	128/256GB
	Slots	32 DIMM
STORAGE DEVICES	I/F	SAS
	Max capacity	SAS : (146GB x8 2,5")10Krpm (73GB x8 2,5")15Krpm
	RAID	On-board RAID 0, 1, 5, 6 512MB of cache Optional : Battery Backup Unit
	HotSwap	Standard
MEDIA	FDD	Optional : USB 1.44MB
	ODD	DVD-ROM
BAYS	Bays :	Device Bays : 5.25" x1 Disk Drive Bays : 2.5" x8 (HotSwap)

I / O SLOTS	Total : 7 slots PCI EXPRESS™ x8 : 4 (2 HotPlug) PCI EXPRESS™ x4 : 3
VIDEO	Video controller is integrated to BMC Video memory : 8 VRAM
NETWORK	Dual Gigabit Ethernet 2 ports Gigabit on I/O riser
I / O PORTS	Display x1, Keyboard / Mouse x1, USB2.0 x6 (3x Front + 2x Rear+1x Internal), Serial x2 (1external and 1 internal) LAN x4, Management LAN x1
POWER SUPPLY	Standard : 2, redundant, HotSwap Maximum power consumption : 1500VA/1570W Dissipation : 4095 BTU per hour
COOLING FAN	Standard : Redundant, HotSwap
MANAGEMENT	Remote Management : ExpressScope Engine 2 Administration software : ESMPRO Configuration software : ExpressBuilder
SECURITY	2 Level Passwords : yes Front Door : yes Intrusion Detection : yes
PHYSICAL SPECIFICATIONS	Dimensions (mm) : 485W x 754D x 177H Weight : 45kg Acoustics pressure : <55dB
CERTIFIED OS	Microsoft® Windows® Server 2008 32/64bit HyperV Windows Server™ 2003 R2 (x64, x86) Red Hat® Linux™ AS 4.6 and EL 5.1 (*1) Mandriva® Linux™ CS4u2 VMware ESX vi3.0.2 and vi3.5
ADDITIONAL TESTS*2	Novell Suse SLES 10 (*1)
WARRANTY	Standard Warranty : 3 years on-site Warranty Extensions : 4 Hour Response 6 Hour Repair Time Commitment

* Contact us

*1 Please contact us to get Linux drivers that are not included in distribution

*2 Contact us to get latest test report

