



# 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 “Dianoscope” management software.

[www.nec-computers.com](http://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)

#### 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

<b>DESIGN</b>	Form Factor 4U Rack	
<b>PROCESSORS</b>	Dual-Core Intel® Xeon® Processor E7220 (2.93GHz /8MB /1066MHz)	
	Quad-Core Intel® Xeon® Processor E7310 / X7350 / E7420 / E7430 / E7440 (up to 2.4GHz /16MB /1066MHz L2 Cache)	
	Six-Core Intel® Xeon® Processor E7450 / X7350 / X7460 (up to 2.66GHz /16Mo /1066MHz) No. of CPU 6 Cache L3 8/16MB	
<b>ARCHITECTURE</b>	Intel® EM64T	Supported
	Chipset	Intel® 7300
	FSB	1066MHz
<b>MEMORY</b>	Type	DDR2-667 FB-DIMM ECC, Mirroring, On-line Sparing
	Min	1GB
	Max	128/256GB
	Slots	32 DIMM
<b>STORAGE DEVICES</b>	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
<b>MEDIA</b>	FDD	Optional : USB 1.44MB
	ODD	DVD-ROM
<b>BAYS</b>	Bays :	Device Bays : 5.25" x1 Disk Drive Bays : 2.5" x8 (HotSwap)

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

If OS "Linux" is chosen, the 7400 series processors will only work on Linux 4.7, 5.2 or superior.

