



NEC EXPRESS5800/R120A-2



Performance

Robustness

**Simplified
management**

The compact rack server with maximum expandability

Energy efficient Server for the most demanding applications

- Delivers utmost performance for medium to large businesses, along with high expandability, reliability, and availability in a space-saving 2U rack form factor.
- Perfectly Suited for virtualisation and consolidation applications, databases, ERP/CRM. Valuable solution for workgroup environments or remote sites looking for space optimisation.
- EXPRESSSCOPE Technology integrated as standard (KVM over IP, Remote Media), providing enhanced RAS functionality while optimizing your management cost.

www.nec-computers.com

IT SERVICES AND SOFTWARE

MOBILE/BROADBAND NETWORKING

COMPUTERS

SEMICONDUCTORS

IMAGING AND DISPLAYS

Empowered by Innovation

NEC

Caractéristiques

Performance

- Intel® Xeon® 45nm **Dual/Quad core processors** (5500 series)
- Up to **96Gb DDR3 1066/1333Mhz** RDIM memory capacity
- Supports **x8 SAS 2.5"** or x6 SAS/SATA 3.5" HotSwap HDDs
- PCI-e2 (x4) slot dedicated to RAID controller
- High performance **PSU 80+**

High expandability

- **New RAID controller** (128/256Mo cache, RAID 0,1,5,6) with optional battery backup unit
- 3.5" Bay for optional Single Tape drive
- 5 PCI slots available (3 Low-profile and 2 Full-height). Up to 5x **PCI-Express 2.0 with optional riser**
- Optional **Redundant HotSwap power supply and fans**

Simplified management

- Integrated Web-based remote management Technology featuring **KVM over IP and remote media**
- **ESMPRO Suite and ExpressBuilder**, Remote management suite and installation/configuration support tool

| | |
|------------------------|---|
| DESIGN | Form Factor 1U Rack with One touch rails |
| PROCESSORS | Intel® Xeon® Quad-Cores 5500 series (up to 2.93GHz/6.4Ghz QPI/8MB cache) |
| | Intel® Xeon® Dual-Core 5502 (1.86GHz/4.8Ghz QPI/4MB cache) |
| | No. of CPU 2 Cache L2 4MB or 8MB |
| ARCHITECTURE | Intel® EM64T Supported Chipset Intel® Tylersburg -36D + Intel® ICH10R + ServerEngines Pilot2 |
| | Interconnect Bus Speed Quick Path Interconnect up to 6.4GHz |
| MEMORY | Type DDR3-1066/1333(*1) RDIMM ECC, x4/x8 SDDC, Mirroring, Sparing, Lockstep, 2-3Way Interleave |
| | Min 1GB (1GB x1) Max 96GB (8GB x12) Slots 12 DIMM |
| STORAGE DEVICES | I/F SATA2 / SAS Max capacity 2.5" SAS 10Ktpm : 2.4TB (300GB x8) 2.5" SAS 15Ktpm : 1.1TB (146GB x8) 3.5" SATA2 7.2Ktpm : 6TB (1TB x6) 3.5" SAS 15Ktpm : 2.7TB (450GB x6) |
| | RAID Standard : on-board SATA RAID 0, 1 Optional : SAS/SATA RAID controller 0, 1, 5, 6 (128MB or 256MB cache). Battery Backup Unit |
| | Hot-Swap Supported (standard) |
| MEDIA | FDD Optional : External USB 1.44MB ODD DVD RW drive |
| BAYS | Device Bays : 3.5" x1 Disk Drive Bays : 3.5" x6 2.5" x8 Slim Bay for Optical Device Drive |

| | |
|--------------------------------|--|
| I / O SLOTS | Total : 5 slots Full height : Standard : PCI-E 2.0 (x8) : 2 one slot is PCI-E 2.0 (x16) socket |
| | Optional : 64bit/133MHz PCI-X :1 PCI-E 2.0 (x8) :1 or 64bit/33MHz PCI (5V) :2 Low Profile Standard: PCI-E 2.0 x8 :1 PCI-E 2.0 x4 : 1 (x8 socket) PCI-E x4 : 1 (x8 socket) 1 Slot PCI-E 2.0 dedicated to RAID controller |
| VIDEO | Embedded PCI SVGA Video with 32MB of VRAM |
| TPM | TPM 1.2 (Winbond WPCT200) |
| NETWORK | 1000BASE-T x 2 (w/IOAT) I/OAT3, VT-d2 *GbE port #2 can also use as management port. 10/100BASE-T dedicated to management |
| I / O PORTS | Display x1, Keyboardx1, Mouse x1 USB2.0 x4 (2x Front + 2x Rear), Serial x2 (one internal), LAN x2, Management LAN x1 |
| POWER SUPPLY | PSU 80+ Power Supply : Standard : 1, Hot-Swap Optional : Up to 2, Redundant Average power consumption : 310W (*2) Average Dissipation : 1057 BTU per Hour |
| COOLING FAN | Standard : Redundant and not Hot-Swap |
| MANAGEMENT | Remote Management : ExpressScope Engine 2 Integrated remote Media and KVM over IP Administration software : ESMPRO management Configuration software : ExpressBuilder |
| SECURITY | 2 Level Passwords : yes Front Door : yes Intrusion Detection : yes |
| PHYSICAL SPECIFICATIONS | Dimensions (mm) : 485W x 825D x 88H Weight : 21kg (standard), 31kg (max) Acoustics (idle/ running): 49.7dB/54.5dB at 25° |
| CERTIFIED OS | Windows Server™ 2008 (x64, x86) Red Hat® Linux™ EL 5.x VMware 3.5 / 4.0 |
| ADDITIONAL TESTS | Windows Server™ 2003 R2 SP2 (x64, x86) Novell® SuSe™ SLES 10 SP2 (*3) |
| WARRANTY | Standard Warranty : 3 years on-site Warranty Extensions : 4 Hour Response 6 Hour Repair Time Commitment |

*1 Check with your reseller for DDR3-1333 availability date

*2 Configuration: 2xE5520, 8GB DDR3 Memory, 3x 146GB 10K 2.5", RAID controller, redundant PSU)

*3 Tests reports available on <http://linux.nec-computers.com/>