



NEC EXPRESS5800/T120a-M



**Outstanding
Performances**

**Reliability
and Comfort**

**Full Remote
Manageability**

The POWERFUL Departmental Server

For an adaptable infrastructure that evolves
at the same pace as your company

- Designed for remote branch offices, mid size companies and workgroups of large corporations
- Perfectly suited for Virtualisation, collaborative Suites and departmental Applications.
- Performance, reliability and expandability to secure growing businesses
- Optimal acoustics upgrade kit for most demanding environments

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IT SERVICES AND SOFTWARE

MOBILE/BROADBAND NETWORKING

COMPUTERS

SEMICONDUCTORS

IMAGING AND DISPLAYS

Empowered by Innovation

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Product Highlights

Outstanding Performances for departmental applications

- Large choice of Intel® Xeon® 45nm **Dual/Quad core** processors (5500 Series)
- Support of Up to **96GB DDR3** Memory
- Storage capacity extended up to **16x 2.5" SAS/SATA Disks (8x Disks maximum in 3.5" form factor)**
- High efficient RAID controller** (128 or 256MB cache with optional BBU) enabling RAID 0,1,10,5,6 packs

Reliability and Comfort for growing businesses

- High efficient **Hotswap redundant power supplies and fans**
- Wide choice of optional LTO tape drives

Full Remote Manageability installation, deployment and maintenance

- Integrated **ExpressScope Engine2** technology featuring KVM over IP and Remote Media
- ExpressBuilder** and **ESMPRO Suite** enabling simple installation/configuration and remote monitoring
- « Power Limit Control » technology which allows **monitoring and remote control of power consumption**

DESIGN	Form Factor Tower Optional 5U Rack Mount Kit
PROCESSORS	Quad-Core Intel® Xeon® 5500 series (up to 2.93GHz/QPI 6.4GT/s/8MB)
	Dual-Core Intel® Xeon® Processor 5502 series (1.86GHz/QPI 4.8GT/s/4MB)
	2nd Cache 4MB or 8MB No. of CPU 2 (max)
ARCHITECTURE	Technology Intel® EM64T, EIST, VT-d2 Chipset Intel® 5520 + Intel® 82801JIR (ICH10R) + ServerEngines Pilot2 Principal Bus Quick Path Interconnect
	Type DDR3-1066/1333 (*1) Registered ECC, x4/x8 SDDC, Mirroring, Sparring, Lockstep, 2-3Way Interleave
MEMORY	Min 2GB (2GB x1)
	Max 96Go (8Go x12, Registered) (requires 2x processors populated)
	Slots 12 DIMM
STORAGE DEVICES	I/F SATA2 / SAS
	Max capacity 2.5" SAS 10Ktpm : 4.6TB (300GB x16) 2.5" SAS 15Ktpm : 2.3TB (146GB x16) 2.5" SATA 7.2Ktpm : 8TB (500GBx16)(*1) 3.5" SATA2 7.2Ktpm : 8TB (1TB x8) 3.5" SAS 15K : 3.6TB (450GB x8)
	RAID Option : PCI express x8 RAID controller (128MB or 256MB cache) supporting RAID 0,1,5,6,10,50 Battery Backup Unit
	HotSwap Supported (standard)
	FDD Optional : External 1.44MB USB FDD ODD DVD RW
MEDIA	
BAYS	Device Bays 5.25" x3 Max Disk Drive Bays : 8x 3.5" (4+4) or 16x 2.5" (8+8)

I / O SLOTS	Total : 6 slots PCI EXPRESS™ : 5 X8 (PCI-E 2.0) : 4 @X4 (PCI-E 1.0) : 1 32bit/33MHz PCI : 1 (5V)
VIDEO	Embedded 32MB VRAM
TPM	TPM 1.2 (Winbond WPCT200)
NETWORK	Embedded Dual Gigabit Ethernet w/ WOL (1000BASE-T x 2) I/OAT3, VT-d2 compatible + Dedicated Remote Management Port (100BASE-T x1)
I / O PORTS	Keyboard x1, Mouse x1, USB2.0 x6 (2x Front + 2x Rear + 2x internal), Serial x2, SVGA Video x1, LAN x2 Option : 1x Connector 68 pin VHD (SCSI Port) 1x Connector SAS SFF-8470
POWER SUPPLY	PSU 80+ Standard : 1, HotSwap Optional : Redundant PSU (1+1) Monitoring and remote control of power consumption with « Power Limit Control » Average power consumption : 385W (*2) Average Dissipation : 1314 BTU/Hour (*2)
COOLING FAN	Standard : 3 Optional : 3 HotSwap
MANAGEMENT	Integrated ExpressScope Management Suite featuring KVM over IP and Remote media Administration Software : ESMPRO Suite Configuration Software : ExpressBuilder
SECURITY	2 level Passwords : Yes Front Door : Yes Intrusion Detection : Yes
PHYSICAL SPECIFICATIONS	Dimensions : 220W x 711D x 453H (mm) Weight : 25kg (standard), 35kg (max) Acoustics : 45dB at 25°C
CERTIFIED OS	Windows Server™ 2008 (x64, x86) Red Hat® Linux™ EL 5.x (*3) VMware 3.5 / 4.0 (*1)
ADDITIONAL SUPPORTED OS	Windows Server™ 2003 R2 SP2 (x64, x86)(*1) Novell® SuSe™ SLES 10 SP2 (*3)
WARRANTY	Standard Warranty : 3 years on-site Warranty Extensions : 4 hour Response 8x5 or 24X7 6 hour Repair 8x5 Time Commitment

*1 Check with your reseller availability date

*2 Config: 2xE5520, 8GB DDR3 Memory, 4x 300GB 15K, RAID controller, optional PSU)

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