

NEXTSERVER Evo



The Next Evolution of High-Performance Data Streaming Rackmount Computing



The NextServer Evo from NextComputing offers the most extreme performance and storage density in a small 3U rackmount form factor. The system's FleXtreme modular architecture provides end users and OEMs with the exact solution they need and the expandability to meet future expectations. FleXtreme is the powerful architecture found in many of NextComputing's different platforms such as the NextDimension and Vigor series.

- Modular processing system allows for easy changes and upgrades with up to (2) Single- / Dual- / Quad-Core AMD Opteron™ or Dual- / Quad-Core Intel® Xeon® processors
- Leverage up to 32GB of RAM via up to (6) DMA channels

- Utilize up to (16) front-access removable hard drives to 2TB each, and up to multiple fixed internal drives to 600GB each
- Accelerate and secure your data with onboard or PCI-based RAID 0 / 1 / 0+1 / 5 controllers
- Increase your capabilities with (4) full-length expansion slots for single or dual width PCI Express and PCI-X cards
- Run multiple 32- and 64-bit operating systems with dual-boot or virtual concurrent use environments



Modular Processing Options

AMD Opteron™ low-wattage processors:

- Socket 940 (supports PXE)
 - (1) or (2) **248 HE** Single-Core processors 2.2GHz
 - (1) or (2) **275 HE** Dual-Core processors 2.2GHz
- Socket F 1207 (supports PXE)
 - (1) or (2) **2216 HE** Dual-Core processors 2.4GHz
 - (1) or (2) **2379 HE** Quad-Core processors 2.4GHz

Intel® Xeon® w/ LGA 771 socket:

- (1) or (2) **L5240** Dual-Core 3.0GHz, 6MB L2 cache, 1333MHz FSB
- (1) or (2) **L5420** Quad-Core 2.5GHz, 12MB L2 cache, 1333MHz FSB
- (1) or (2) **L5430** Quad-Core 2.66GHz, 12MB L2 cache, 1333MHz FSB

(Note: All processor modules are upgradeable)

Memory

- Up to 16GB DDR SDRAM (AMD Opteron 940)
- Up to 32GB DDR2 SDRAM (AMD Opteron 1207), FBD RAM (Intel Xeon)

Base Graphics

- AMD Opteron 940 Model: On-board ATI Radeon Mobility graphics controller with 64MB VRAM, dual channel interface
- AMD Opteron 1207 and Intel Models: On-board ATI X300 PCI Express graphics controller with 64MB VRAM with dual channel interface

PCI Expansion Midplane Options

4-slot Midplane Options

- **Option 1:** (2) PCI Express 8x (16x mechanical) slots and (2) PCI-X 64-bit slots
- **Option 2:** (1) PCI Express 16x slot and (3) PCI-X 64-bit slots
- **Option 3:** (1) PCI-X 64-bit slot, plus (1) single-width and (1) dual width PCI Express 8x (16x mechanical) slots (AMD only),
or
(1) PCI-X 64-bit slot, plus (3) PCI Express 8x/4x/8x slots (Intel only)

2-slot Midplane Options (for special HDD configs)

- **Option 1:** (1) PCI Express 16x full length slot and (1) PCI-X 64-bit full length slot
- **Option 2:** (2) PCI-X 64-bit full length slots
- **Option 3:** (2) PCI Express 8x (16x mechanical) slots
- **Option 4:** (1) 5V PCI 32-bit (legacy) and (1) PCI Express 16x

Rear I/O

AMD-based Systems

- (2) Gigabit-Ethernet ports
- (2) external SATA ports (not avail. on all configs)
- (4) USB 2.0 ports
- (2) RS-232 ports (with optional external RS-422/485 adaptor)
- CRT SVGA port (AMD Opteron 940 models)
-or- DVI-Analog port (AMD Opteron 1207 models)

Intel-based Systems

- (2) Gigabit-Ethernet ports
- (4) USB 2.0 ports
- (1) DVI-Digital port
- Firewire 1394a, 400Mbps, 3-port Physical Layer
- Audio line-in / line-out / mic-in (AC97)
- Optional (2) external SATA ports and (2) RS-232 ports (with optional external RS-422/485 adaptor)
-or- (4) external SATA ports
-or- (2) multi-lane SAS Quad ports

Storage

- Up to **(16)** front-access removable 3.5" HH drives available with RAID 0/1/5/10
 - 450GB 15K RPM SAS drives
 - 2TB 7200RPM SATA drives
- Additionally, up to **(4)** quick-time removable drives (no tools required) and up to **(13)** internal fixed 2.5" drives available with RAID 0/1/5
 - 500GB 7200RPM SATA drives
 - 600GB 10K RPM SAS drives
 - 147GB 15K RPM SAS drives
- AMD-based Systems: On-board RAID 0, 1, 0+1 controller (Windows only)
- Intel-based Systems: On-board LSI Logic RAID 0 / 1 / 0+1 SATA controller with up to (8) ports plus on-board SATA controller with up to (6) ports
- Support for PCI-based RAID controllers

Power Sub-System

900W (1 + 1) Redundant AC 100 - 240V, 60-50Hz power supply w/ PFC
Regulatory (Power Supply) Power Supply Safety / EMC
USA - UL listed, FCC Canada - CUL listed Germany - TUV Certified Europe/CE Mark EN 60950/IEC 60950-Compliant CCC Certified CB Report Ready

Operating System Support (32- and 64-bit)

- SuSe Enterprise Linux, Desktop Linux
- Red Hat Enterprise Linux
- Fedora Desktop
- CentOS
- Microsoft Windows 2003 Server, 2008 Server
- Microsoft Windows Vista Business (64-bit only)
- Microsoft Windows XP Professional
- Solaris 10 x86 (64-bit only)

Dual boot environments and virtualization with VMware (including ESXi-Intel only), VirtualBox, or Xen

Environmental

Operating:

- 5°C-45°C, 41°F-113°F (16GB RAM)
- 5°C-40°C / 41°F-104°F (24GB RAM)
- Relative humidity (5-95%) non-condensing

Non-Operating:

- -40°C-65°C, -40°F-149°F
- Relative humidity (5-95%) non-condensing

Regulations

- FCC Class A, and CE. TUV (pending certification)

OEM and Project/Program Options

- Configuration Control
- BIOS customization
- Longevity of Supply
- Private label options
- Customer PCI/PCIe card and application integration
- Ruggedization Options

Physical

- 3U Server: Height 5.2" (132mm), Width 17.2" (450mm), Depth 25.5" (648mm)
- Gross Weight ~82 lbs (37.2 kg)
- Optional RackMount Slides
- Optional Operational Rugged Transit Case (below)



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