

NEXTDIMENSION Pro HD



**Jump to the Next Dimension with a "Flextop" Workstation—
Cutting Edge Portable Computing with a Built-In Display**



Harness the power, efficiency, and computing density of Dual-Core AMD Opteron™, Dual-Core or Quad-Core Intel® Xeon® processors

Supercharge application performance with specialized, low profile memory to 16GB

Run multiple 32- and 64-bit operating systems with dual-boot or VMWare concurrent use environments



Expand your capabilities with the FlexXtreme architecture, which allows for a multitude of custom hardware and software configurations

Multiple PCI-X and PCI Express 16x expansion options, including NVIDIA graphics cards by PNY Technologies and up to six displays with NextComputing's HydraGraphics configuration

Change drives quickly and easily with quick-time removable internal SATA drives; up to 200GB in each drive



Let us configure a NextDimension to provide the perfect computing solution in your field:



- Broadcast & Media
- Oil & Gas
- Telecom / Datacom
- CAD / EDA
- Emergency / 1st Response
- Test & Measurement
- Life Sciences
- Military and Intelligence
- Training



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Modular Processing Options

AMD Opteron™ 940 Processors:

- (1) or (2) single-core processors to 2.2GHz
- (1) or (2) dual-core processors to 2.2GHz

AMD Opteron™ 1207 Processors:

- (1) or (2) dual-core processors to 2.4GHz

Intel® Xeon® Dual-Core Processors:

- (1) or (2) dual-core processors 2.33GHz, 4MB L2 cache, 1066MHz FSB, 40W

Intel® Xeon® Quad-Core Processors:

- (1) or (2) quad-core processors to 2.0GHz, 8MB L2 cache, 1066MHz FSB, 50W

Memory

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

Display Options

- Integrated 17" WUXGA+ LCD up to 1920x1200
- Supports external displays to 1920x1200 resolution

Base Graphics

- AMD Models: On-board ATI Radeon Mobility graphics controller with 64MB VRAM with dual channel interface
- Intel Models: On-board ATI X300 PCI Express graphics controller with 64MB VRAM with dual channel interface

I/O

AMD-based Systems

- (3) Gigabit-Ethernet ports
- (2) external SATA ports
- (4) USB 2.0 ports
- RS-232 port
- RS-232 port w/ optional external RS-422/485 adaptor
- Optional FireWire 400, 800, or SoundBlaster card
- CRT SVGA port for dual-head display (AMD Opteron 940 models)
- or- DVI-Analog port (AMD Opteron 1207 models)

Intel-based Systems

- (2) Gigabit-Ethernet ports
- (4) USB 2.0 ports
- DVI-Digital port for dual-head display
- Firewire 1394a, 400Mbps, 3-port Physical Layer
- Optional audio line-in / line-out / mic-in (AC97)
- (2) external SATA ports and (2) RS-232 ports (with optional external RS-422/485 adaptor)
- or- (4) external SATA ports

PCI Expansion

- (1) PCI-X 64-Bit/133MHz full length slot and (1) PCI Express 16x full length slot -or-
- (2) PCI-X full length slots -or-
- (2) PCI Express 8x (16x mechanical) slots

Storage and Media Bays

- Single or dual hot-swappable and bootable 2.5" 100 / 120 / 160 / 200GB 7200RPM SATA HDDs
- Internal DVD R/RW (can be replaced by up to (2) SATA or IDE HDDs)
- 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



Optional External Disk Drives

- NextDisk direct attached storage
- Mini SATA HDDs

Additional Internal HDD Configurations

- PCI bay houses up to (6) 2.5" SATA drives (up to 200GB 7200RPM ea) -or- (1) 3.5" SATA drive (7200 RPM to 750GB)
- Factory configured NextPak mass storage slice with up to (5) 2.5" SATA HDDs
- (Configurations limited by length of PCI cards used. RAID 5 functionality or drives not supported by onboard controller require PCI-based controller)

Input Device

- Support for external USB keyboard, or KVM
- Wireless via external wireless keyboard hub

Operating Systems Support (32- and 64-bit)

Server OS:

- SuSe or Red Hat Enterprise Linux
- Microsoft Windows 2003 Server
- Solaris 10 x86 (64-bit only)

Workstation OS:

- Microsoft Windows XP Professional
- SuSe Desktop Linux
- Fedora Core Desktop
- Solaris 10 x86 (64-bit only)
- Dual boot environments and virtualization with VMware or Xen

Power Sub-System

400W—110/220V 50/60Hz auto-switching power supply

Environmental

Operating: 5°C—50°C, 41°F—131°F, 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. Certified TUV

Physical

- 4.44" (D) x 11.44" (H) x 16.8" (W)
- Basic configuration ~ <13.5—19.5 lbs

Carrying Case

Includes soft carrying case. Optional hardened cases. Optional rack-mount kit.



Optional PCI Expansion Chassis

2-, 4-, or 7-slot expansion chassis features (2) USB 2.0 ports, (2) PS/2 mouse ports, (1) serial port, and dual-head support

