

# NEXT COMPUTING



## NEXTDIMENSION EVO

Your Full-Featured, High-Performance  
Portable Computing Solution

The NextDimension Evo meets the toughest standards for those who need a high-performance portable workstation. When it comes to enterprise-class computing and portability, the NextDimension Evo leaves both laptops and bulky workstations in the dust.

The NextDimension Evo expands on our original "flectop" model, the NextDimension Pro. With the addition of greater I/O capabilities and more

storage, the NextDimension Evo truly is an evolution in high-performance mobile computing.

Whether in the office or in the field, the NextDimension Evo gives you the computing performance you need to tackle high-end applications like video production, 3D medical imaging, high-bandwidth data recording, or military simulation.



- ⇒ 1 or 2 Six-Core or Quad-Core Intel Xeon processors
- ⇒ Up to 96GB low profile memory
- ⇒ Swappable SATA or SAS hard drives; no tools required
- ⇒ Up to 4 PCI Express x16 and PCI-X expansion slots
- ⇒ 32- and 64-bit operating systems with dual-boot or VMWare options

## Processor Options

### (1) or (2) Intel® Xeon® Processors

- L5410 Quad-Core 2.33GHz
- L5630 Quad-Core 2.13GHz
- L5640 Six-Core 2.26GHz

## Memory

### Using single or dual Intel Xeon 5400 series:

- Up to 32GB DDR2 ECC RAM

### Using Intel Xeon 5600 series:

- Single processor: up to 24GB DDR3 ECC RAM
- Dual processor: up to 96GB DDR3 ECC RAM

## Display

- Integrated 17" WUXGA+ (1920x1200) LCD
- Supports additional external displays including NextComputing's specially designed clip-on displays with resolutions to 1920x1200
- Optional capacitive touchscreen (1920x1200)
- Screenless version available

## Graphics

- Optional ATI E2400 MXM-II graphics with 256MB VRAM
- Support for PCI Express graphics cards up to full length, dual-width

## Input Devices

- Support for external USB keyboard and mouse
- Optional secure wireless keyboard and mouse available

## I/O

- (2) Gigabit-Ethernet ports
- (4) USB 2.0 ports
- DVI-Digital port
- Firewire 1394a, 400Mbps
- 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

## Optical Drive

- Internal DVD R/RW or Blu-Ray R/RE

## PCI Expansion Options

### 4-slot Midplane

- 3 slots in PCI bay, 1 slot in processor bay
- PCI Express, PCI-X, or combinations

### 2-slot Midplane

- PCI Express, PCI-X, or combination

Note: PCI Express slots on 5500/5600 series-based systems will be PCIe 2.0

## Removable Storage

Up to (4) removable and bootable drives:

- 6G SATA drives up to 1TB/7200 RPM (hot-swappable)
- 6G SAS drives (not hot-swappable) up to:
  - 600GB/10K RPM
  - 300GB/15K RPM
  - 1TB/7200RPM
- Solid state drives: 6G 256GB -or- 3G 600GB

## Fixed Internal Storage

### Lower PCI bay houses up to:

- (6) 6G SATA drives up to 1TB/7200 RPM
- (6) 6G SAS drives up to:
  - 600GB/10K RPM
  - 300GB/15K RPM
  - 1TB/7200RPM
- (10) Solid state drives up to 6G 256GB -or- 3G 600GB

### (2) 3.5" SATA drives up to 2TB

### Processor bay houses up to

- (4) 6G SATA drives up to 1TB/7200 RPM
- (4) 6G SAS drives up to:
  - 600GB/10K RPM
  - 300GB/15K RPM
  - 1TB/7200RPM
- (6) Solid state drives up to 6G 256GB -or- 3G 600GB
- (1) 3.5" SATA drive up to 2TB

Note: Configurations limited by length of PCI cards used. RAID 5 functionality or drives not supported by onboard controller require PCI-based controller

## RAID Options

- On-board LSI RAID 0 / 1 / 0+1 SATA/SAS controller with up to (8) ports plus on-board SATA controller with up to (6) ports
- Optional PCIe-based RAID controllers up to 6G speeds

## Operating System Support (32-/64-bit)

- Microsoft Windows including: Windows XP, Windows 7, Windows Server 2003, 2008
- Linux distributions including: SuSe, Red Hat, Fedora, CentOS
- Solaris 10 x86 (64-bit only)
- Dual boot environments and virtualization with VMware (including ESXi), VirtualBox, or Xen

## Power Sub-System Options

- 460W or 700W internal 110/220V 50/60Hz auto-switching 80 PLUS rated power supply
- Internal 460W/24V DC nominal (19V-36V DC range) power supply
- 420W external adapter—AC/DC switching w/ 20V DC output (for use with internal 460W DC power supply)

## Environmental

- Relative humidity (5-95%) non-condensing

### Operating:

- 5°C–45°C, 41°F–113°F (16GB RAM)
- 5°C–40°C / 41°F–104°F (24GB RAM)
- 5°C–35°C / 41°F–95°F (32GB RAM)
- 5°C–30°C / 41°F–86°F (48GB RAM)

### Non-Operating:

- -40°C–65°C, -40°F–149°F

## Regulations

- FCC Class A, and CE. Certified TUV

## Physical

- 5.69" (D) x 11.44" (H) x 16.8" (W)
- Basic configuration ~ 20 lbs

## Carrying Case

- Optional hardened cases and rolling transit cases available. Optional rack-mount kit.

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