



NexStor® 4000S

Ultra320 SCSI Channel Storage Solutions



Features and Benefits:

- Flexibility and scalability to meet the needs of direct-connect environments
- Easy upgrade from JBOD to high-availability storage solutions
- Data storage transfer speeds up to 320 MB/s per bus
- Automatic, active/active controllers with failover/failback
- Supports up to 3.6 TB per enclosure and up to 10.8 TB per solution
- Modular architecture for increased reliability and flexibility
- Redundant hot-swap disk drives, cooling fans and load sharing power supplies
- Supports the industry's fastest and largest disk drives

Flexible, Entry-level to Mid-range SCSI Channel Solutions with Fault Tolerance and High Performance

The NexStor 4000S Ultra320 SCSI Series delivers fault tolerance and high performance in a single storage system. This innovative product is designed to meet all entry-level and mid-range storage requirements. With the ability to scale to an industry leading 3.6 TB in 3.5" (2U), the NexStor 4000S Series combines Ultra320 SCSI performance with an upgrade path to active/active controllers in the same storage system. The NexStor 4000S Series redefines flexibility. Built on a modular product platform, two models are available to fit any direct server connection environment.

The 4000S JBOD system is the foundation for any SCSI host connectivity and is optimized for performance oriented high definition editing/rendering, scientific calculations and streaming data applications.

The 4100S system is available with single or dual controllers by adding controllers to the 4000S JBOD. These systems offer scalability up to 10.8 TB in 10.5" (6U) of data center space. The 4100S system adds controller level data protection to applications that require the ability to scale storage capacity, maintain high performance and build fault tolerance, as required in video, seismic, medical imaging and technology markets.

nStor continues to lead in capacity, performance and footprint with the 4000S Series, delivering high performance and redundancy in enclosures designed to meet the demands of any storage application.

To learn more about the NexStor 4000S Series products or to see our wide range of storage solutions, visit our website at: www.nstor.com



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SIMPLIFYING STORAGE SOLUTIONS

NexStor® 4000S

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Technical System Specifications

Host Interface	VHDC Ultra320 (320 MB/s), Ultra160 (160 MB/s), and Ultra2 LVD (80 MB/s)
System Architecture	Ultra320, Ultra160, or Ultra2 LVD SCSI
SCSI Bus Configuration	Dual bus (standard) or single bus (with optional Single bus module)
Hot-Swap Components	Hard drives, RAID controllers, power supplies, and cooling fans
Redundant Components	Hard drives, RAID controllers, power supplies, and cooling fans
Error Notification (SES/SEI)	Audible alarm, status LEDs, in-band SAF-TE, and network messaging
SAF-TE Compliance	Yes

	NexStor 4000S JBOD	NexStor 4120S RAID
Host Interface	Ultra320, Ultra160 or Ultra2 LVD SCSI	Ultra160 or Ultra2 LVD SCSI
Drive Support	36, 73, 146GB or 300GB (10k and 15k RPM)	36, 73, 146GB or 300GB (10k and 15k RPM)
Maximum Cap/Enclosure	3.6TB (12 x 300GB)	3.6TB (12 x 300GB)
Maximum Cap/Daisy-Chain Expansion	Up to 3.6TB on a single solution	Up to 10.8TB on a single solution by adding 2 nStor 4000S JBOD expansion enclosures
Number of RAID Controllers	1 or 2 SCSI RAID controllers can be integrated Compatible with U320 PCI/PCIX RAID controller	2 SCSI RAID controllers. Also available as the NexStor 4110S with 1 SCSI RAID controller

Integrated RAID Controller

RAID Levels	0, 1, 3, 4, 5, 0+1, 10, 50, and Volume Set/JBOD
Cache Memory	Up to 1GB of memory
Drive Interface	Ultra160
LUN Support	Up to 24 arrays with a maximum of 64 LUNs

Power Requirements for the nStor 4000S Series Storage Solutions

Input Voltage	85 – 264 VAC (auto-sensing, load balancing)
Input Frequency	47 - 63 Hz
Maximum Input Current	4.5 Amperes at 85 VAC, 1 Amperes at 264 VAC
Power Supply Rating	Redundant 350 watt (425 watt peak) hot-swappable power supply units with Power Factor Correction (PFC)
Maximum BTUs per Hour	1,194 BTUs per system
Power Source	2 US standard independent power cords

Certification Compliance

Emissions	FCC Part 15 Class A, CISPR 22, EN55022-A, BSMI, VCCI, C-TICK
Agency Certification	CAN/CSA C22.22 #60950-00, UL 60950 3rd Edition, CB IEC 60950 Edition 3
CE Compliance (EMC)	89/336/EEC EMC Directive, EN 55024

Physical Characteristics

	Rackmount	Deskside Tower
Width	17.65" (44.8 cm)	8.0" (20.3 cm)
Length	20.25" (51.4 cm)	21.5" (54.6 cm)
Height	3.47" (8.1 cm)	20.0" (50.8 cm)
Weight	39 lbs. (17.7 kg)	48.5 lbs.(22 kg)

Warranty

Three-year return to factory hardware warranty with toll-free, 8/5 technical support; and 90-day software warranty. Optional on-site services, remote diagnostics, and hardware and software post-warranty coverage available.

Storage Management

AdminiStor RAID Configuration Utility for local in-band monitoring and management (4100S series only)
AdminiStor Plus Global storage management software (optional) for local and remote in-band GUI management and alert notification
VT-100 Command Line Interface for local out of band CLI configuration only (4100S series only)

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