



NexStor™ 4100F/4200F

1 and 2 Gbit Fibre Channel RAID Systems

FEATURES AND BENEFITS

Availability

- Active/active RAID controllers
- Host-transparent controller failover and failback
- Integrated battery backup module for mirrored write cache data protections
- Redundant, hot-swap cooling fans, disk drives, and load sharing power supplies to ensure data protection
- Cableless design for increased reliability and hot-swappability
- Local storage management and monitoring through SCSI Enclosure Services (SES)

Performance

- 1Gbit (100 MB/s) Fibre Channel host and drive interface
- Up to four independent host connections
- Up to 1GB of write-protected, instant data accessing cache
- Supports the Industry's fastest and largest disk drives

Scalability

- Scale to 32 TB in a 63-inch data center cabinet
- Field-upgrade path from single to dual RAID controller
- Configure up to 16 RAID groups with up to 32 data partitions
- Shared or dedicated controller-to-host LUN mapping
- Flexible soft target drive addressing
- Dynamic on-line RAID expansion
- Single, dual, or quad loop configurations



Big Things Come in Small Packages

Packaging either 1Gbit (NexStor 4100F series) or 2Gbit (NexStor 4200F series) in the same 2U, 12 drive bay enclosure brings a common storage look to existing 1Gbit architectures or newly designed 2Gbit Fibre Channel installations. Providing multiple 100 MB/s or 200 MB/s host connections, the NexStor 4100F and 4200F family of products provide continuous data availability with active/active RAID controllers and the ability to scale up to 32TB in a single 63-inch data center cabinet.

The NexStor 4100F storage systems are available in a single controller (NexStor 4110F) and dual controller (NexStor 4120F) models, perfect for entry-level or existing 1Gbit SAN applications. The NexStor 4100F series are built on an interface that has been deployed for the past 7 years and has proven to be the most efficient storage medium for sharing files between servers that demand high performance. With redundant RAID controllers, the NexStor 4100F series is great workhorse to meet almost all data I/O trend environments.

The NexStor 4200F picks up where the NexStor 4100F left off. The NexStor 4200F storage systems are available as the NexStor 4210F, single controller, and the NexStor 4220F, dual controller. Leveraging the heritage of the 4100F series, the NexStor 4200F series brings 2Gbit performance and maintains complete data protection with increased on-board RAID cache and redundant RAID controllers.

Sharing the same firmware set, both of these product families offer host to controller LUN assignment, on-line array expansion, and integrated battery backup module. Common firmware and enclosure technology makes these two products easy to qualify and integrate into a computing environment continuing nStor's goal to 'Simplify Storage Solutions' for customers.

SIMPLIFYING STORAGE SOLUTIONS



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NexStor 4100F/4200F

Technical System Specifications

4100F Host and Drive Interface	1Gbit (100 MB/s) Fibre Channel, DB9 copper connectors
4200F Host and Drive Interface	1 or 2 Gbit (200 MB/s) Fibre Channel, SFP (Small Form Factor Pluggable) LC connectors
Fibre Loop Configuration	Dual resilient driver loops
Hot-Swap Components	Hard drives, RAID controllers, power supplies, cooling fans, disk I/O card, host I/O card (4200F only)
Redundant Components	Hard drives, RAID controllers, power supplies, cooling fans, disk and host I/O ports
Error Notification (SES/SEI)	Audible alarm, status LEDs, in-band SES, and network messaging
SES Compliance	Yes

	NexStor 4120F	NexStor 4220F
RAID Solutions	1 Gbit	1 or 2 Gbit
Host Interface Drive Capacity	18, 36, 73 or 146 GB (10k and 15k RPM) 1.7 TB (12 x 146GB)	18, 36, 73 or 146 GB (10k and 15k RPM) 1.7 TB (12 x 146GB)
Maximum Cap/Enclosure	Up to 14TB with 7 NexStor 4000F expansion systems	Up to 14TB with 7 NexStor 4000F expansion systems
Number of RAID Controllers	2 Fibre Channel RAID controllers. Also available as the NexStor 4110F with 1 Fibre Channel RAID controller	2 Fibre Channel RAID controllers Also available as the NexStor 4210F with 1 Fibre Channel RAID controller

Integrated RAID Controller

	nStor 4120F	nStor 4220F
RAID Levels	0, 1, 3, 5, 0+1, 10, 30, 50, and JBOD	0, 1, 3, 5, 0+1, 10, 30, 50, and JBOD
Cache Memory	Up to 256MB of write protected, auto-tuning cache	Up to 1GB of write-protected cache
Drive Interface	1Gbit Fibre Channel	1 or 2 Gbit Fibre Channel
LUN Support	Up to 16 arrays with a maximum of 32 LUNs	Up to 16 arrays with a maximum of 32 LUNs
Management	In-band or out of band management	In-band or out of band management

Power Requirements for the nStor 4100F/4200F Series Storage Solutions

Input Voltage	85 – 240 VAC (auto-sensing, load balancing)
Input Frequency	50 – 60Hz
Maximum Input Current	3 Amperes at 110v, 1.5 Amperes at 220v
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, NOM
Agency Certification	CAN/CSA C22.22 #60950-00, UL 60950 3rd Edition, CB IEC 60950 Edition 3, NOM
CE Compliance	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" (8.81 cm)	20.0" (50.8 cm)
Weight	39 lbs. (17.7 kg)	48.5 lbs.(22 kg)

Storage Management

RAID configuration software for local in-band GUI configuration only
VT-100 Command Line Interface for local out of band CLI configuration only



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