



OneStor™ 5200FA

Fibre Channel to SAS/SATA Storage Solution

Features and Benefits:

- Continuous access and data protection for SAN and DAS environments
- Centralized, ease-of-use management through embedded StorView software
- Dual active RAID controllers with failover/failback for high availability
- Optimal efficiency with high performance SAS and cost effective SATA in one system
- Four Fibre Channel host ports for optimal connectivity and performance
- Exceptional expandability with 24TB of total capacity.
- Superior performance for the most demanding applications
- Assurance against data loss through RAID protection
- Full duplex, point-to-point architecture for maximum data throughput
- Easy expansion and migration for simplified data management
- Online capacity growth through dynamic array and LUN expansion
- Cableless, modular design and redundant, hot swappable components for fault tolerance



Redefining Flexibility and Availability

The OneStor 5200 Offers Data Protection and Continuous Availability with Maximum Flexibility.

Businesses today need constant data access to perform critical functions ranging from filling orders to processing payroll. Loss of this data can bring business to a halt. The OneStor 5200 offers data protection and continuous availability while simplifying data management for a wide range of business applications. The OneStor 5200 brings together in one storage system both Serial Attached SCSI (SAS) and Serial ATA (SATA) storage resulting in optimal performance and return on investment.

The OneStor 5200 maximizes data protection and fault tolerance for SAN and direct attach storage environments. Dual active RAID controllers provide failover/failback and four Fibre Channel (FC) ports for optimal connectivity. Other high availability features include RAID protection, point-to-point architecture, dual ported SAS and SATA drive interface, write cache data protection as well as local and global spares with automatic drive rebuild. The cableless, modular chassis design and redundant, hot swappable controllers, power supplies, disk drives and cooling fans provide optimal fault tolerance. The OneStor 5200 leverages the reliability of FC and SAS for high data integrity.

The OneStor 5200 delivers maximum flexibility for simplified data management and high return on investment. By combining high performance SAS and cost effective SATA storage in one system, businesses can choose the appropriate storage to support various applications. The StorView® Management suite provides an OS independent, centralized GUI for automated configuration, error detection, remote notification and management. Dynamic array and LUN expansion enable quick, online capacity changes. The OneStor 5200 provides growth through disk expansions with 24TB of total capacity.

For superior performance, the OneStor 5200 provides the bandwidth needs for high data throughput, video editing to database intensive, online transaction processing. The OneStor 5200 leverages SAS full duplex, point-to-point architecture with dedicated connections for maximum data throughput. With maximum flexibility, superior performance and continuous availability, the OneStor 5200 is in a class by itself.

To learn more about the OneStor 5200 offering or to see our wide range of storage solutions and services, visit our website at: www.nstor.com or contact us at 1-800-335-9191.



OneStor™ 5200FA

FC to SAS/SATA Storage Solution

Technical System Specifications

Host Interface (per controller)	Two 2 Gb/s (200MB/s) Fibre Ports (SFF), 200MB/s per channel (400MB/s full duplex)	
Host Fibre Channel Protocol	Supports point-to-point, loop and fabric (switched) topologies	
Drive Interface Porting	Dual ported SAS (3 Gb/s), Single ported SATA (1.5 or 3 Gb/s). Dual ported SATA with drive mux transition card	
Redundant, Hot-Swap Components	Disk Drives, RAID Controllers, Power Supplies and Cooling Fans	
Error/Status Reporting	SES (SCSI Enclosure Services)	
	5210FA	5220FA
Number of RAID Controllers	One (upgradeable to two)	Two
Cache Memory	Up to 1GB (single controller)	Up to 2GB (dual controllers)
Dynamic Cache Tuning	Yes	Yes
Variable Stripe Size	Yes	Yes
Volume Sharing	Yes	Yes
Number of LUNs Supported	512	512
SAS Drive Support	SAS: 36GB, 73GB, 146GB (15,000 RPM) and 300GB (10,000 RPM)	
SATA Drive Support	SATA: 36GB (10,000 RPM), 250GB, 300GB and 400GB (7,200 RPM)	
Maximum Capacity per System	4.8TB (12 x 400GB)	
Maximum Capacity per Daisy Chain	24TB (60 x 400GB)	
Expansion Chassis	5010AA Single or 5020AA Dual I/O, SAS to SAS/SATA Disk Expansion	

RAID Protection Feature

- Supports up to 60 disk arrays with individual RAID level 0, 1, 5, 10 and 50 support
- Active/Active RAID controllers with background data scrubbing
- Multiple dedicated or global spares with automatic, host-transparent disk drive rebuild for continuous data protection
- Dedicated channels for mirrored write cache coherency with integrated battery backup unit
- RAID configuration is written to the disk drives and is exportable to a host file for easy configuration recovery
- Non-disruptive controller firmware upload (dual controller only)

Power Requirements

Input Voltage	Auto-Sensing 85 - 264 VAC (load balancing with redundant power supplies)
Input Frequency	47 - 63 Hz
Maximum Input Current	4.5 Amperes at 85 VAC, 1 Amperes at 264 VAC
Power Supply Rating	Redundant (optional) 350 watt (425-watt peak) power supply units with 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



Front View (without bezel), Twelve Disk Drives



Rear View, Dual Controllers

Rackmount Width: 17.66" (44.9 cm), Length: 20.64" (52.4 cm), Height: 3.47" (8.8 cm), Weight: 35 lbs. (15.9 kg)

Warranty Three-year return to factory warranty and 90-day software warranty. Optional warranty contracts are also available.

StorView Storage Management Software Host based or embedded versions for local or remote configuration and monitoring.

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