CoreStor™

CoreStor Fibre Channel Series Storage System

The affordable choice for deployments where cost/performance (IOPS) is primary consideration.

CoreStor Fibre Channel array series brings 16Gb/s connectivity to the environments that require high availability and high performance. It features two 16Gb/s Fibre Channel ports per controller with enhanced throughput required for IOP-intensive and high-bandwidth applications. CoreStor Fibre Channel arrays eliminate bottlenecks in the I/O path enabling faster performance of data intensive applications, such as backup/restore, database transactions, virtualization, and rich media. Combining the cutting-edge 16 Gb/s bandwidth with redundant hardware, they deliver affordable enterprise-level performance and availability without sacrificing ease of use and reliability.

KEY FEATURES

Dual Core RAID on chip (ROC) 800Mhz Storage Processor.

Advanced PCI-Express Gen3.0 bus architecture.

Up to 8GB on-board ECC cache memory.

SAS 2.0 backplane, 6Gb/s, full duplex data transfer rate.

Dual 16Gb/s FC ports per controller.

Supports up to 256 SAS/SATA devices with JBOD enclosures (SAS Expanders).

Optional Battery Backup module preserves cache contents during power failure.

OVERVIEW

CoreStor Fibre Channel arrays address the challenge of storing and managing rapidly increasing amounts of data with limited resources and budgets. With 16Gb/s connectivity, they offer high-throughput, highly efficient storage that takes the Fibre Channel architecture to a higher level of performance and availability. The arrays come in a 2U, 3U or 4U form factor, and drives can be mixed and matched as needed.

Affordable:
- Optimal solution when cost per GB is a key requirement.
- More capacity/performance for your budget.

Easy to setup and easy to manage:
- Intuitive RAID management utilities make it easy to configure, monitor, and manage array performance through Web GUI, LCD control panel, or RS-232 port.

Scalable:
- Add Disk Enclosures as needed to boost capacity
- Room to grow as your storage demands increase.
- Allows for expansion up to 256 drives.

Energy efficient:
- 80 PLUS power supplies.
- Drive Spin Down to lower the power consumption.

RAID Features

- OS / Host independent.
- Hot-swappable components to ensure continuous operation.
- Supports global and dedicated hot spare with automatic hot rebuilding and automatic drive (insertion / removal) detection.
- Online Capacity Expansion.
- Supports RAID 0, 1, 0+1, 3, 5, 6, 30, 50, 60 and JBOD modes.

- Fast failover performance and high data availability with optional dual controllers.
- Online RAID Level / Stripe Size Migration.
- Supports up to 128 LUNs per controller.
- Supports 64 bit Logical Block Addressing (LBA).
- Write-through and write-back cache support.
- NVRAM transaction log.
- Hardware ASIC for RAID 6 parity calculation offload pushes I/O.

Available models

Form	Drive Bays	Controllers	
		Single	Dual
2U	12-bay	2712F	2712FR

Form	Drive Bays	Controllers	
		Single	Dual
2U	24-bay	2724F	2724FR

Form	Drive Bays	Controllers	
		Single	Dual
3U	16-bay	3716F	3716FR

Form	Drive Bays	Controllers	
		Single	Dual
4U	24-bay	4724F	4724FR

Form	4U	3U	2U
Host Interface	Dual 16Gb FC ports per controller.		
Disk Interface	24 x 6Gb SAS / 6Gb SATA drives	16 x 6Gb SAS / 6Gb SATA drives	12 x 6Gb SAS / 6Gb SATA drives
	Dual downstream miniSAS (4x6Gb) expansion ports per controller.		
Supported Drives	All 3.5" SATA and SAS drives from 1Tb to 8Tb are supported.		
Operating System	**Single controller:** OS independent and transparent. **Redundant controller:** MPIO (Multipath I/O) driver required. **Supported OS:** Windows 7 and Windows 8 / Windows Server 2003, Server 2008, and Server 2012, Linux, FreeBSD, Solaris, Mac OS X 10.x		
Power Supply	3 redundant power modules	2 redundant power modules	
	Redundant 500W / 80 Plus energy-efficient power modules with PFC, load sharing and cable-less design.		
Electrical	AC Voltage 100-240 VAC / AC Frequency 50-60Hz		
Temperature	Operating temperature: 5 to 35 degree C. Non operating temperature: -40 to 60 degree C.		
Relative Humidity	20% to 80% non-condensing.		
Dimensions	446.5mm(W) x 517mm(D) x 4U	446.5mm(W) x 517mm(D) x 3U	446.5mm(W) x 517mm(D) x 2U