CoreStor™

CoreStor PCIe Series Storage System

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

CoreStor PCIe array series is an eight-lane PCIe 3.0 to 6Gb SAS/SATA storage solution that offers increased interconnect throughput and more efficient data transfers. CoreStor PCIe arrays are designed to support performance and capacity-intensive applications with the bandwidth of PCIe 3.0 connectivity. With data transfer rates of 8 GT/s and eight lanes of high speed PCIe 3.0 traffic, the arrays deliver the performance demanded by the ever-growing I/O requirements of today's enterprises.

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.

Eight-lane PCIe 3.0 host interface with 8 GT/s data transfer rate.

Supports up to 122 SAS/SATA devices with JBOD enclosures (SAS Expanders).

Optional Battery Backup module preserves cache contents during power failure.

OVERVIEW

CoreStor PCIe arrays address the challenge of storing and managing rapidly increasing amounts of data with limited resources and budgets. Offering the full benefits of PCIe 3.0 standard, they deliver exceptional throughput while balancing affordability with performance. CoreStor PCIe 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 122 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
2U	12-bay	2712E

Form	Drive Bays	Controllers
		Single
3U	16-bay	3716E

Form	Drive Bays	Controllers
		Single
4U	24-bay	4724E

Form	4U	3U	2U
Host Interface	PCIe 3.0 x 8 connector		
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	Device 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