

Pantera Storage Subsystem – Model E500



Enterprise applications that demand exceptional performance, non-stop availability and ease of capacity scaling will greatly benefit from the Pantera Storage Subsystem – Model E500. Featuring 4Gb/s Fibre Channel technology, dual parity RAID and online capacity expansion, Model E500 Storage Subsystem delivers advanced storage management capabilities to store, protect and manage your business critical data.

FEATURES/HIGHLIGHTS

- Integrated, hardware-based RAID with support for RAID levels 0, 1, 1+0, 3, 5 and 6
- Ability to reconfigure any LUN on the fly from one RAID level to any other
- Online expansion of physical capacity and logical volumes
- Controller based premium features — Snapshot, Internal Volume Copy and Remote Volume Mirroring
- Support for high-performance Fibre Channel drives and/or high capacity SATA drives
- Auto-negotiation of 4, 2, or 1Gb/s Fibre Channel connectivity

Advanced RAID solutions

The Model E500 storage subsystem implements the most advanced end-to-end 4Gb/s Fibre Channel (FC) technology for enterprise-class RAID storage to create a fully-featured storage subsystem engineered to maximize performance, scalability and availability. The technology has been engineered to ensure that storage access and throughput will never be the gating factor to your application's productivity. The product is designed for speed, flexibility and growth. Dual-active controllers of the Model E500 storage subsystem and up to 16 disk drives are integrated within a new RoHS-compliant, 3U, rack-mountable controller enclosure. It has four 4Gb/s FC host ports for direct host or fabric SAN attachment, two 4Gb/s FC drive ports for capacity expansion, and supports 2GB of battery-backed, mirrored cache. Up to 6 additional expansion drive modules are easily FC attached to the controller for a total capacity of 112 drives.

The Model E500 storage subsystem design delivers data-intact drive portability — supporting drive-level reconfigurations and controller-level upgrades as system requirements change. Drives can be relocated within the storage subsystem to improve channel utilization/protection, or even migrated as a complete volume group into another Model E500 storage subsystem. With its most comprehensive solutions for data protection and security, Model E500 storage subsystem increases your immunity to natural, accidental or malicious disasters and negligence. The entire solution packages save money, time and the pains associated with implementing new applications, as well as accelerating the values they bring so much sooner.

Robust storage management software provides complete control

SANtricity® Storage Manager software configures and administers the Model E500 storage subsystem. With SANtricity software, storage administrators achieve maximum utilization of the purchased capacity through extensive configuration flexibility and custom performance tuning. SANtricity software allows continuous access to user data during administrative tasks, including configuration, reconfiguration, expansion and maintenance of the system. SANtricity software also lowers storage management costs through centralized management of all Model E500 storage subsystems, run-anywhere flexibility, a common interface across all operating systems and fully integrated premium features.

With fully integrated premium data management features such as Snapshot, Internal Volume Copy and Remote Volume mirroring, Model E500 is comprehensive SAN storage subsystem. Along with Pantera Clustered NAS filers, Model E500 storage subsystem is an excellent platform for both file server and storage consolidation eliminating the need for choosing between NAS and SAN storage.

TECHNICAL SPECIFICATIONS

General Information	External Interface	4G FC, point-to-point, loop and fabric (switched) topologies
	Supported Operating Platforms	ONStor EverON OS; Windows 2000; Windows Server 2003; Linux; Solaris
	Supported Hosts	Max partitions: 64, Max volumes: 1024
	Total Capacity per Unit	16TB (using 1TB drives), 6.4TB (using 400GB drives)
	Expansion Chassis	6 maximum, FC connected, Single & Dual I/O
	Total Capacity	112TB (using 1TB drives), 44.8TB (using 400GB drives)
Disk Drives	Disk Drives Supported	FC (300GB @ 15K RPM) FC (400GB @ 10K RPM) SATA (500GB, 750GB, 1TB @ 7.2K RPM)
	Max Drives per Enclosure	16 drives per enclosure
	Max Enclosures per subsystem including controllers	7
	Max Drives supported	112
RAID Controllers	No. RAID Controllers	2 (dual – HA)
	RAID Levels Supported	RAID level 0, 1, 3, 5, 6 & 1+0
	Cache	1GB Cache per controller, battery backup
	RAID Protection Features	Automatic drive failure detection and rebuild using global hot spare drives; Mirrored cache with battery backup
System Management	Software	SANtricity
	Interfaces Supported	Ethernet (out-of-band)
System Availability	Hot Swappable Components	Redundant, hot-swappable storage controllers, disk drives, power supplies, cooling fans, cache batteries
	Additional Reliability Features	Automated I/O path failover and online administration; Configuration metadata stored on every configured drive
Dimensions	Height	5.13 in.
	Width	17.60 in.
	Depth	22.20 in.
	Weight	87 lbs
Power and Temperatures	Voltage	100-240VAC 5.0A maximum per input
	Frequency	60/50 Hz, single-phase
	Power Consumption	446W for Controller module 428W for Drive module
	Temperature Range	Cabinet: 50° to 95°F (10° to 35° C) Controller module with battery option: 50° to 104°F (10° to 40° C) Controller module without battery option: 50° to 95°F (10° to 35° C) Drive module: 50° to 104°F (10° to 40° C)
Approvals	FCC Class A, VDE, CISPR, VCCI WEEE and RoHS compliant Safety: UL, CSA, IEC, EN60950, NEMKO NEBS Level 3 compliant with optional air filter in the front bezel	
Warranty Information	Enclosures with drives	Up to 3 years