EPICa

EP – 4423S/D-F8S3
EP – 4423S/D-F4S3

4U FC-SAS Redundant RAID Subsystem

The EP-4423 series RAID subsystem features 8Gb or 4Gb FC-AL host performance to increase system efficiency and performance. It features high capacity expansion, with 42 hot-swappable SAS/ SATA II hard disk drive bays in a 19-inch 4U rackmount unit, scaling to a maximum storage capacity in the terabyte range. The EP-4423D series also supports dual controllers which provide better fault tolerance and higher reliability of system operation.

Exceptional Manageability

- The firmware-embedded Web Browser-based RAID manager allows local or remote management and configuration
- The firmware-embedded SMTP manager monitors all system events and user notification automatically
- The firmware-embedded SNMP agent allows remote to monitor events via LAN with no SNMP agent required
- Menu-driven front panel display
- Innovative Modular architecture

Features

- Supports dual controller for features redundant RAID
- Supports RAID levels 0, 1, 10 (1E), 3, 5, 6, 30, 50, 60 and JBOD
- Supports online Array roaming
- Online RAID level/stripe size migration
- Online capacity expansion and RAID level migration simultaneously
- Online Volume Set Expansion
- Supports multiple array enclosures per host connection
- Supports greater than 2TB per volume set
- Supports up to 128 LUNs
- Transparent data protection for all popular operating systems
- RAID ADG provides the highest level of data protection
- Instant availability and background initialization
- Supports S.M.A.R.T, NCQ and OOB Staggered Spin-up capable drives
- Local audible event notification alarm
- Supports password protection
- Serial port interface for remote event notification
- Redundant flash image for high availability
- Support spin down drives when not in use to extend service (MAID)
- Supports Bad Blocks auto remapping and schedule volume check
- Redundant active-active controller functionality ensures zero downtime or data loss
- Fully redundant with hot swappable Controller, disks, cooling fans and power supplies
- Supports hot spare and automatic hot rebuild

Series Technical Specifications

	EP-4423S/D-F8S3	EP-4423S/D-F4S3
RAID Controller	FC-SAS	FC-SAS
Controller	Single or Redundant	Single or Redundant
Host Interface	Two FC-AL(8Gb/s)	Two FC-AL(4Gb/s)
Disk Interface	SAS 3Gb or SATA II	SAS 3Gb or SATA II
SAS expander	4x mini SAS (3Gb/s)	4x mini SAS (3Gb/s)
Capacity		
- Direct Attached	42 Disks	42 Disks
- Expansion	Up to 84 Disks	Up to 84 Disks
Processor Type	Intel IOP341 64-bit	Intel IOP341 64-bit
Cache Memory	512MB ~ 4GB / 1GB ~ 8GB DDR-II ECC SDRAM	
Battery Backup	Optional	Optional
Management Port Support	Yes	Yes
Monitor Port Support	Yes	Yes
RAID Features		
RAID level	0, 1, 10 (1E), 3, 5, 6, 30, 50, 60 and JBOD	0, 1, 10 (1E), 3, 5, 6, 30, 50, 60 and JBOD
Array Group	Up to 128	Up to 128
LUNs	Up to 128	Up to 128
Hot Spare	Yes	Yes
Drive Roaming	Yes	Yes
Online Rebuild	Yes	Yes
Variable Stripe Size	Yes	Yes
E-mail Notification	Yes	Yes
Online capacity expansion, RAID level / stripe size migration	Yes	Yes
Online Array roaming	Yes	Yes
Online consistency check	Yes	Yes
SMTP manager and SNMP agent	Yes	Yes
Redundant Flash image	Yes	Yes
Instant availability and background initialization	Yes	Yes
S.M.A.R.T. support	Yes	Yes
MAID	Yes	Yes
Bad block auto-remapping	Yes	Yes
Enclosure		
Platform	Rackmount	Rackmount
Form Factor	4U	4U
# of Hot Swap Trays	42	42
Tray Lock	Yes	Yes
Disk Status Indicator	Access / Fail LED	Access / Fail LED
Backplane	SAS / SATA II Single BP	SAS / SATA II Single BP
# of PS / Fan Modules	1100W x 2 w/PFC	1100W x 2 w/PFC
# of Fans	11	11
Power Requirements	AC 90V~254V Full Range , 50Hz~60Hz	AC 90V~254V Full Range , 50Hz~60Hz
Environmental		
Relative Humidity	10% ~ 85% Non-condensing	10% ~ 85% Non-condensing
Operating Temperature	10°C ~ 40°C (50°F ~ 104°F)	10°C ~ 40°C (50°F ~ 104°F)
Physical Dimension	810(L) x 482.6(W) x 176(H) mm	810(L) x 482.6(W) x 176(H) mm
Weight (Without Disk)	48.5 / 50Kg	48.5 / 50Kg

Specification is subject to change without notice.
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