

# EPICa

**EP - 4423S/D-S3S3**

**EP - 4423S/D-F4S3**

**4U SAS-SAS/FC-SAS Redundant  
RAID Subsystem**



The EP-4423 series RAID subsystem features 3Gb SAS 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

	<b>EP-4423S/D-S3S3</b>	<b>EP-4423S/D-F4S3</b>
<b>RAID Controller</b>	SAS-SAS	FC-SAS
<b>Controller</b>	Single or Redundant	Single or Redundant
<b>Host Interface</b>	Two 4x mini SAS(3Gb/s)	Two FC-AL(4Gb/s)
<b>Disk Interface</b>	SAS 3Gb or SATA II	SAS 3Gb or SATA II
<b>SAS expander</b>	4x mini SAS (3Gb/s)	4x mini SAS (3Gb/s)
<b>Capacity</b>		
<b>- Direct Attached</b>	42 Disks	42 Disks
<b>- Expansion</b>	Up to 84 Disks	Up to 84 Disks
<b>Processor Type</b>	Intel IOP341 64-bit	Intel IOP341 64-bit
<b>Cache Memory</b>	512MB ~ 4GB / 1GB ~ 8GB DDR-II ECC SDRAM	
<b>Battery Backup</b>	Optional	Optional
<b>Management Port Support</b>	Yes	Yes
<b>Monitor Port Support</b>	Yes	Yes
<b>RAID Features</b>		
<b>RAID level</b>	0, 1, 10 (1E), 3, 5, 6, 30, 50, 60 and JBOD	0, 1, 10 (1E), 3, 5, 6, 30, 50, 60 and JBOD
<b>Array Group</b>	Up to 128	Up to 128
<b>LUNs</b>	Up to 128	Up to 128
<b>Hot Spare</b>	Yes	Yes
<b>Drive Roaming</b>	Yes	Yes
<b>Online Rebuild</b>	Yes	Yes
<b>Variable Stripe Size</b>	Yes	Yes
<b>E-mail Notification</b>	Yes	Yes
<b>Online capacity expansion, RAID level / stripe size migration</b>	Yes	Yes
<b>Online Array roaming</b>	Yes	Yes
<b>Online consistency check</b>	Yes	Yes
<b>SMTP manager and SNMP agent</b>	Yes	Yes
<b>Redundant Flash image</b>	Yes	Yes
<b>Instant availability and background initialization</b>	Yes	Yes
<b>S.M.A.R.T. support</b>	Yes	Yes
<b>MAID</b>	Yes	Yes
<b>Bad block auto-remapping</b>	Yes	Yes
<b>Enclosure</b>		
<b>Platform</b>	Rackmount	Rackmount
<b>Form Factor</b>	4U	4U
<b># of Hot Swap Trays</b>	42	42
<b>Tray Lock</b>	Yes	Yes
<b>Disk Status Indicator</b>	Access / Fail LED	Access / Fail LED
<b>Backplane</b>	SAS / SATA II Single BP	SAS / SATA II Single BP
<b># of PS / Fan Modules</b>	1100W x 2 w/PFC	1100W x 2 w/PFC
<b># of Fans</b>	11	11
<b>Power Requirements</b>	AC 90V~254V Full Range , 50Hz~60Hz	AC 90V~254V Full Range,50Hz~60Hz
<b>Environmental</b>		
<b>Relative Humidity</b>	10% ~ 85% Non-condensing	10% ~ 85% Non-condensing
<b>Operating Temperature</b>	10°C ~ 40°C (50°F ~ 104°F )	10°C ~ 40°C (50°F ~ 104°F )
<b>Physical Dimension</b>	810(L) x 482.6(W) x 176(H) mm	810(L) x 482.6(W) x 176(H) mm
<b>Weight (Without Disk)</b>	48.5 / 50Kg	48.5 / 50Kg

Specification is subject to change without notice.

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