

EPICa

EP-4423S/D-S3S3

EP-4423S/D-F4S3

EP-4423S/D-F8S3

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



The EP-4423 series RAID subsystem features 3Gb SAS or 4Gb or 8Gb 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, 0+1, 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-S3S3 | EP-4423S/D-F4S3 EP-4423S/D-F8S3 |
|--|---|--|
| RAID Controller | SAS-SAS | FC-SAS |
| Controller | Single or Redundant | Single or Redundant |
| Host Interface | Two 4x mini SAS (3Gb/s) | Two FC-AL(4Gb/s), Two FC-AL(8Gb/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 DDR-II ECC SDRAM | 512MB ~ 4GB DDR-II ECC SDRAM |
| Battery Backup | Optional | Optional |
| Management Port support | Yes | Yes |
| Monitor Port support | Yes | Yes |
| RAID Features | | |
| RAID level | 0, 1, 0+1, 3, 5, 6, 30, 50, 60 and JBOD | 0, 1, 0+1, 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 / 50 Kg | 48.5 / 50 Kg |

Specification is subject to change without notice.
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