

EPICa

EP-4643S/D-S6S6

EP-4643S/D-F8S6

*4U 6Gb SAS – 6Gb SAS / 8Gb FC – 6Gb SAS
Redundant RAID Subsystem*

EP-4643J/JD-S6S6

4U 6Gb SAS JBOD Enclosure Solution



The EP-4643 series RAID subsystem features 6Gb SAS or 8Gb FC-AL host performance to increase system efficiency and performance. It features high capacity expansion, with 64 hot-swappable SAS2/SATA3 hard disk drive bays in a 19-inch 4U rackmount unit, scaling to a maximum storage capacity in the terabyte range. The EP-4643D 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

Feature

- 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
- Support global and dedicated hot spare
- Online Volume Set Expansion
- Support multiple array enclosures per host connection
- Greater than 2TB per volume set (64-bit LBA support)
- Greater than 2TB per disk drive
- Supports 4K bytes/sector for Windows up to 16TB per volume set
- Disk scrubbing/ array verify scheduling for automatic repair of all configured RAID sets
- Login record in the event log with IP address and service (http, telnet and serial)
- Support intelligent power management to save energy and extend service life
- Support NTP protocol to synchronize RAID controller clock over the on-board LAN port
- Max 128 LUNs (volume set) per controller
- Transparent data protection for all popular operating systems
- Instant availability and background initialization
- Supports S.M.A.R.T, NCQ and OOB Staggered Spin-up capable drives
- Supports hot spare and automatic hot rebuild
- Local audible event notification alarm
- Redundant flash image for high availability
- Real time clock support



Series Technical Specifications

Model	EP-4643S/D-S6S6	EP-4643S/D-F8S6	EP-4643J/JD-S6S6
RAID Controller	6Gb SAS – 6Gb SAS	8Gb FC – 6Gb SAS	JBOD
Controller	Single or Redundant	Single or Redundant	Single or Redundant
Host Interface	Two 6Gb/s SAS (SFF-8088)	Four FC-AL (8 Gb/s)	One 6Gb/s SAS (SFF-8088)
Disk Interface	6Gb/s SAS, 6Gb/s SATA	6Gb/s SAS, 6Gb/s SATA	6Gb/s SAS, 6Gb/s SATA
SAS Expansion	Two 6Gb/s SAS (SFF-8088)	Two 6Gb/s SAS (SFF-8088)	Two 6Gb/s SAS (SFF-8088)
Capacity			
- Direct Attached	64 Disks	64 Disks	64 Disks
- Expansion	Up to 128 Disks	Up to 128 Disks	Refers to controller specification
Processor Type	800MHz RAID-On-Chip storage processor	800MHz RAID-On-Chip storage processor	-
Cache Memory	1GB ~ 4GB / 2GB ~ 8GB DDR2-800 ECC Registered SDRAM	1GB ~ 4GB / 2GB ~ 8GB DDR2-800 ECC Registered SDRAM	-
Battery Backup	Optional	Optional	-
Management 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 2.0	Yes	Yes	-
Bad block auto-remapping	Yes	Yes	-
Enclosure			
Platform	Rackmount	Rackmount	Rackmount
Form Factor	4U	4U	4U
# of Hot Swap Trays	64	64	64
Tray Lock	Yes	Yes	Yes
Disk Status Indicator	Access / Fail LED	Access / Fail LED	Access / Fail LED
Backplane	SAS2 / SATA3	SAS2 / SATA3	SAS2 / SATA3
# of PS / Fan Modules	1100W x 2 w/PFC	1100W x 2 w/PFC	1100W x 2 w/PFC
# of Fans	15	15	15
Power Requirements	AC 100V ~ 240V Full Range, 15A~7.5A, 47Hz~63Hz	AC 100V ~ 240V Full Range, 15A~7.5A, 47Hz~63Hz	AC 100V ~ 240V Full Range, 15A~7.5A, 47Hz~63Hz
Environmental			
Relative Humidity	10% ~ 85% Non-condensing	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)	10°C ~ 40°C (50°F ~ 104°F)
Physical Dimension	880(L) x 482.6(W) x 177(H) mm	880(L) x 482.6(W) x 177(H) mm	880(L) x 482.6(W) x 177(H) mm
Weight (Without Disk)	43.5/45Kg	43.5/45Kg	43.5/45Kg

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