EPICa

EP-4643S1/D1-S6S6
EP-4643S1/D1-F8S6

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

CiTRiX ready **vmware** READY

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-4643D1 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
- Multi-path & load-balancing support (Microsoft MPIO)
- Automatic synchronization of firmware version in the dual-active mode
- 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

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Series Technical Specifications

Model	EP-4643S1/D1-S6S6	EP-4643S1/D1-F8S6
RAID Controller	6Gb SAS – 6Gb SAS	8Gb FC – 6Gb SAS
Controller	Single or Redundant	Single or Redundant
Host Interface	Two / Four 6Gb/s SAS (SFF-8088)	Four / Eight FC-AL (8 Gb/s)
Disk Interface	6Gb/s SAS, 6Gb/s SATA	6Gb/s SAS, 6Gb/s SATA
SAS Expansion	One / Two 6Gb/s SAS (SFF-8088)	One / Two 6Gb/s SAS (SFF-8088)
Capacity		
- Direct Attached	64 Disks	64 Disks
- Expansion	Up to 256 Disks	Up to 256 Disks
Processor Type	800MHz Dual Core RAID-On-Chip processor	800MHz Dual Core RAID-On-Chip processor
Cache Memory	1GB ~ 8GB / 2GB ~ 16GB DDR3-1333 ECC SDRAM	1GB ~ 8GB / 2GB ~ 16GB DDR3-1333 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 2.0	Yes	Yes
Bad block auto-remapping	Yes	Yes
Enclosure		
Platform	Rackmount	Rackmount
Form Factor	4U	4U
# of Hot Swap Trays	64	64
Tray Lock	Yes	Yes
Disk Status Indicator	Access / Fail LED	Access / Fail LED
Backplane	SAS2 / SATA3	SAS2 / SATA3
# of PS / Fan Modules	1100W x 2 w/PFC	1100W x 2 w/PFC
# of Fans	15	15
Power Requirements	AC 90V ~ 254V Full Range, 50Hz~60Hz	AC 90V ~ 254V Full Range, 50Hz~60Hz
Default Slide Rail: Post to Post 800mm~1090mm (32"~42") / Option: Post to Post 750mm~900mm (29"~35")		
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	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

Specification is subject to change without notice.
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