

EPICa

EP - 2243S1/D1-FGS6

2U 16Gb FC – 6Gb SAS Redundant RAID Subsystem



The EP-2243 series RAID subsystem features 16Gb FC-AL host performance to increase system efficiency and performance. It features high capacity expansion, with 24 hot-swappable SAS2/SATA3 hard disk drive bays in a 19-inch 2U rackmount unit, scaling to a maximum storage capacity in the terabyte range. The EP-2243D1 series also supports dual controllers which provide better fault tolerance and higher reliability of system operation.

Highest Density Available

- 2U chassis with 24 bays carriers
- Support the latest 2.5" enterprise class SAS/SATA disk drives

Unsurpassed Data Availability

- RAID 6 capability provides the highest level of data protection
- Expansion capability up to 11 enclosures – total of 264 drives

Unparalleled Energy Saving

- Low power consumption & Low heat production
- MAID 2.0 20%~60% power savings

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)
- Transparent data protection for all popular operating systems
- Instant availability and background initialization
- Multi-path & load-balancing support
- 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



Series Technical Specifications

Model	EP-2243S1/D1-FGS6
RAID Controller	16Gb FC – 6Gb SAS
Controller	Single or Redundant
Host Interface	Two / Four FC-AL (16 Gb/s)
Disk Interface	6Gb/s SAS, 6Gb/s SATA
SAS Expansion	One / Two 6Gb/s SAS (SFF-8088)
Capacity	
- Direct Attached	24 Disks
- Expansion	Up to 264 Disks
Processor Type	800MHz Dual Core RAID-On-Chip processor
Cache Memory	1GB ~ 8GB / 2GB ~ 16GB DDR3-1333 ECC SDRAM
Battery Backup	Optional
Management Port Support	Yes
RAID Features	
RAID level	0, 1,10(1E), 3, 5, 6, 30, 50, 60 and JBOD
Array Group	Up to 128
LUNs	Up to 128
Hot Spare	Yes
Drive roaming	Yes
Online Rebuild	Yes
Variable Stripe Size	Yes
E-mail Notification	Yes
Online capacity expansion, RAID level / stripe size migration	Yes
Online Array Roaming	Yes
Online consistency check	Yes
SMTP manager and SNMP agent	Yes
Redundant Flash image	Yes
Instant availability and background initialization	Yes
S.M.A.R.T. support	Yes
MAID 2.0	Yes
Bad block auto-remapping	Yes
Enclosure	
Platform	Rackmount
Form Factor	2U
# of Hot Swap Trays	24(2.5")
Disk Status Indicator	Access / Fail LED
Backplane	SAS2 / SATA3 Single BP
# of PS / Fan Modules	400W x 2 w/PFC
# of Fans	2
Power Requirements	AC 90V ~ 264V Full Range 8A ~ 4A, 47Hz ~ 63Hz
Environmental	
Relative Humidity	10% ~ 85% Non-condensing
Operating Temperature	10°C ~ 40°C (50°F ~ 104°F)
Physical Dimension	559(L) x 483 (W) x 88(H) mm
Weight (Without Disk)	14 / 15 Kg

*Specification is subject to change without notice.
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