EPICa

EP – 2243S2/D2-F8S6
EP – 2243S2/D2-FGS6
EP – 2243S2/D2-SCS6

2U 24-Bay Redundant Controller RAID Subsystem

The EP-2243 series RAID subsystem features 8Gb FC-AL, 16Gb FC-AL or 12Gb SAS host performance to increase system efficiency and performance. The EP-2243 systems are equipped with 24 hot swappable SAS2/SATA3 hard disk drive bays. It can connect with expansion enclosures to accommodate up to 256 drives. The EP-2243D2 series also supports dual redundant controllers which provide better fault tolerance and higher reliability of system operation.

Controller Redundancy

• Dual-active RAID controller with cache mirroring through dedicated high speed bus
• Automatic synchronization of firmware version in the dual-active mode
• Redundant controller operation with active/active and failover/failback function
• Redundant flash image for controller availability
• Management port seamless take-over

High availability

• DataBolt™ Bandwidth Optimizer for balance faster host and slower SAS or SATA devices
• RAID level 0, 1,10(1E), 3, 5, 6, 30, 50, 60, 00, 100, Single Disk and JBOD

Unparalleled Drive Support

• Support for native 4K and 512 byte sector SAS and SATA devices
• Support HDD firmware update
• SSD automatic monitor clone (AMC) support
• S.M.A.R.T. support

Energy Saving

• Low power consumption & Low heat production
• Support intelligent power management to save energy and extend service life

RAID Management

• Access terminal menu by telnet via a LAN port
• API library for customer to write its own monitor utility
• Field-upgradeable firmware in flash ROM
• Firmware-embedded manager via RS-232 port
• Firmware-embedded Web Browser-based RAID manager allows local or remote management and configuration
• SAP management utility to easily manage multiple RAID units in the network

Series Technical Specifications

Model	EP-2243S2/D2-F8S6	EP-2243S2/D2-FGS6	EP-2243S2/D2-SCS6
RAID Controller	8Gb FC – 6Gb SAS	16Gb FC – 6Gb SAS	12Gb SAS – 6Gb SAS
Controller	Single or Redundant	Single or Redundant	Single or Redundant
Host Interface	Four / Eight FC-AL (8 Gb/s)	Two / Four FC-AL (16 Gb/s)	Two / Four 4x mini SAS HD (12Gb/s) (SFF-8644)
Disk Interface	6Gb/s SAS, 6Gb/s SATA HDD/SSD		
SAS expansion	One / Two 6Gb/s SAS (SFF-8644)		
- Direct Attached	24 Disks		
- Expansion	Up to 256 Disks		
Processor Type	1.2GHz Dual Core RAID-On-Chip processor		
Cache Memory	2GB ~ 8GB DDR3 ECC SDRAM (per controller)		
Management Port Support	2 x RJ11 Serial Ports; 1 x RJ45 Ethernet Port		
Battery Backup Module(BBM)	Optional		
RAID Features			
RAID level	0, 1,10(1E), 3, 5, 6, 30, 50, 60, 00, 100, Single Disk and JBOD		
LUNs	Up to 128		
Hot Spare	Global and Dedicated		
Stripe Size	Up to 1024KB		
Cache writing approaches	Write-through or write-back		
Online Rebuild	Yes		
Automatic drive insertion/ removal detection	Yes		
Multiple RAID selection	Yes		
Online Array roaming	Yes		
Online RAID level / stripe size migration	Yes		
Online capacity expansion	Yes		
Online volume set growth	Yes		
SNMP manager	Yes		
E-mail Notification	Yes		
Instant availability and background initialization	Yes		
HDD Xfer Speed Test	Yes		
Real time clock support	Yes		
RAID clock Synchronization	Yes (Using NTP)		
Multiple pairs SSD/HDD disk clone	Yes		
Multi-Path I/O (MPIO) Support	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. All company and product names are trademarks of their respective owners.

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