

# EPICa

**EP - 2243S2/D2-FGSC**

**EP - 2243S2/D2-SCSC**

*2U 24-Bay Redundant Controller RAID Subsystem*



The EP-2243 series RAID subsystem features 16G FC-AL or 12Gb SAS host performance to increase system efficiency and performance. The EP-2243 systems are equipped with 24 hot swappable SAS3/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-FGSC	EP-2243S2/D2-SCSC
<b>RAID Controller</b>	16G FC – 12Gb SAS	12Gb SAS - 12Gb SAS
<b>Controller</b>	Single or Redundant	Single or Redundant
<b>Host Interface</b>	Four / Eight FC-AL (16G FC) Optional: 32G FC SFP+ module	Two / Four 4x mini SAS HD (12Gb) (SFF-8644)
<b>Disk Interface</b>	12Gb SAS, 6Gb SATA HDD/SSD	
<b>SAS expansion</b>	One / Two 12Gb SAS (SFF-8644)	
- Direct Attached	24 Disks	
- Expansion	Up to 256 Disks	
<b>Processor Type</b>	1.2GHz Dual Core RAID-On-Chip processor	
<b>Cache Memory</b>	2GB ~ 8GB DDR3-1866 ECC SDRAM (per controller)	
<b>Management Port Support</b>	2 x RJ11 Serial Ports; 1 x RJ45 Ethernet Port	
<b>Battery Backup Module(BBM)</b>	Optional	
<b>Flash-based Backup module (FBM)</b>	Optional	
<b>RAID Features</b>		
<b>RAID level</b>	0, 1,10(1E), 3, 5, 6, 30, 50, 60, 00, 100, Single Disk and JBOD	
<b>LUNs</b>	Up to 128	
<b>Hot Spare</b>	Global and Dedicated	
<b>Stripe Size</b>	Up to 1024KB	
<b>Cache writing approaches</b>	Write-through or write-back	
<b>Online Rebuild</b>	Yes	
<b>Automatic drive insertion/ removal detection</b>	Yes	
<b>Multiple RAID selection</b>	Yes	
<b>Online Array roaming</b>	Yes	
<b>Online RAID level / stripe size migration</b>	Yes	
<b>Online capacity expansion</b>	Yes	
<b>Online volume set growth</b>	Yes	
<b>SNMP manager</b>	Yes	
<b>E-mail Notification</b>	Yes	
<b>Instant availability and background initialization</b>	Yes	
<b>HDD Xfer Speed Test</b>	Yes	
<b>Real time clock support</b>	Yes	
<b>RAID clock Synchronization</b>	Yes (Using NTP)	
<b>Multiple pairs SSD/HDD disk clone</b>	Yes	
<b>Multi-Path I/O (MPIO) Support</b>	Yes	
<b>Enclosure</b>		
<b>Platform</b>	Rackmount	
<b>Form Factor</b>	2U	
<b># of Hot Swap Trays</b>	24(2.5")	
<b>Disk Status Indicator</b>	Access / Fail LED	
<b>Backplane</b>	SAS3 Single BP	
<b># of PS / Fan Modules</b>	400W x 2 w/PFC	
<b># of Fans</b>	2	
<b>Power Requirements</b>	AC 90V ~ 264V Full Range 8A ~ 4A, 47Hz ~ 63Hz	
<b>Environmental</b>		
<b>Relative Humidity</b>	10% ~ 85% Non-condensing	
<b>Operating Temperature</b>	10°C ~ 40°C (50°F ~ 104°F)	
<b>Physical Dimension</b>	559(L) x 483 (W) x 88(H) mm	
<b>Weight (Without Disk)</b>	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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