

# EPICa

**EP - 2243S/D-S3S3**

**EP - 2243S/D-F4S3**

**EP - 2243S/D-F8S3**

**2U SAS-SAS/SATA II & FC-SAS/SATA II  
Redundant RAID Subsystem**



The EP-2243 is Proware's most versatile SAS/SATA II Disk Array system, ideal for midrange and high capacity storage application. The EP-2243 equipped Serial Attached SCSI (SAS) interface which supports both 2.5" SFF SAS and SATAII disk drives. The ability to mix SAS and SATA drives allows the EP-2243 to be used for a range of applications that require different price/performance characteristics. Cost-effective SATA drives can be selected for capacity oriented storage such as disk-to-disk backup and the storage of reference data. Higher specification SAS drives can be employed for I/O intensive applications including transactional databases. Hosting multiple tiers of data in an EP-2243 configuration gives organizations the flexibility to meet both their technical requirements and budgetary constraints with a single unified solution.

## **Unsurpassed Data Availability**

- High density 2U Rack Mount Support 24 2.5" SFF Disks
- RAID 6 capability provides the highest level of data protection
- Expansion capability up to 4 enclosures total of 96 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

## **Features**

- Fully redundant with hot swappable Controller, disks, cooling fans and power supplies
- Modular Design With Common Parts
- 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
- Online Volume Set Expansion
- Supports multiple array enclosures per host connection
- Supports greater than 2TB per volume set (64-bit LBA support)
- Supports 4K bytes/sector for Windows up to 16TB per volume set
- Support spin down drives when not in use to extend service (MAID 2.0)
- Supports up to 128 LUNs per RAID set
- Transparent data protection for all popular operating systems
- RAID ADG provides the highest level of data protection
- 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
- Supports password protection
- Built-in serial port interface for remote event notification
- Redundant flash image for high availability



# Series Technical Specifications

Model	EP-2243S/D-S3S3	EP-2243S/D-F4S3 EP-2243S/D-F8S3
<b>RAID Controller</b>	SAS-SAS / SATA II	FC-SAS / SATA II
<b>Controller</b>	Single or Redundant	Single or Redundant
<b>Host Interface</b>	Two / Four 4x mini SAS(SFF-8088)	Two / Four FC-AL(4Gb/s) , Two / Four FC-AL(8Gb/s)
<b>Disk Interface</b>	SAS 3Gb or SATA II	SAS or 3Gb/s SATA II
<b>SAS expander</b>	One 4x mini SAS (SFF-8088)	One 4x mini SAS (SFF-8088)
<b>Capacity</b>		
- Direct Attached	24 Disks	24 Disks
- Expansion	Up to 96 Disks	Up to 96 Disks
<b>Processor Type</b>	Intel IOP341 64-bit	Intel IOP341 64-bit
<b>Cache Memory</b>	512MB ~ 4GB / 1GB ~ 8GB DDR-II SDRAM	
<b>Battery Backup</b>	Optional	Optional
<b>Management Port Support</b>	Yes	Yes
<b>Monitor Port Support</b>	Yes	Yes
<b>RAID Features</b>		
<b>RAID level</b>	0, 1, 10 (1E), 3, 5, 6, 30, 50, 60 and JBOD	0, 1, 10 (1E), 3, 5, 6, 30, 50, 60 and JBOD
<b>Array Group</b>	Up to 128	Up to 128
<b>LUNs</b>	Up to 128	Up to 128
<b>Hot Spare</b>	Yes	Yes
<b>Drive Roaming</b>	Yes	Yes
<b>Online Rebuild</b>	Yes	Yes
<b>Variable Stripe Size</b>	Yes	Yes
<b>E-mail Notification</b>	Yes	Yes
<b>Online capacity expansion, RAID level / stripe size migration</b>	Yes	Yes
<b>Online Array roaming</b>	Yes	Yes
<b>Online consistency check</b>	Yes	Yes
<b>SMTP manager and SNMP agent</b>	Yes	Yes
<b>Redundant Flash image</b>	Yes	Yes
<b>Instant availability and background initialization</b>	Yes	Yes
<b>S.M.A.R.T. support</b>	Yes	Yes
<b>MAID</b>	Yes	Yes
<b>Bad block auto-remapping</b>	Yes	Yes
<b>Enclosure</b>		
<b>Platform</b>	Rackmount	Rackmount
<b>Form Factor</b>	2U	2U
<b># of Hot Swap Trays</b>	24 (2.5")	24 (2.5")
<b>Disk Status Indicator</b>	Access / Fail LED	Access / Fail LED
<b>Backplane</b>	SAS / SATA II Single BP	SAS / SATA II Single BP
<b># of PS / Fan Modules</b>	400W x 2 w/PFC	400W x 2 w/PFC
<b># of Fans</b>	2	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	10% ~ 85% Non-condensing
<b>Operating Temperature</b>	10°C ~ 40°C (50°F ~ 104°F )	10°C ~ 40°C (50°F ~ 104°F )
<b>Physical Dimension</b>	559(L) x 483(W) x 88(H) mm	559(L) x 483(W) x 88(H) mm
<b>Weight (Without Disk)</b>	14 / 15Kg	14 / 15Kg

Specification is subject to change without notice.  
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