

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
RAID Controller	SAS-SAS / SATA II	FC-SAS / SATA II
Controller	Single or Redundant	Single or Redundant
Host Interface	Two / Four 4x mini SAS(SFF-8088)	Two / Four FC-AL(4Gb/s) , Two / Four FC-AL(8Gb/s)
Disk Interface	SAS 3Gb or SATA II	SAS or 3Gb/s SATA II
SAS expander	One 4x mini SAS (SFF-8088)	One 4x mini SAS (SFF-8088)
Capacity		
- Direct Attached	24 Disks	24 Disks
- Expansion	Up to 96 Disks	Up to 96 Disks
Processor Type	Intel IOP341 64-bit	Intel IOP341 64-bit
Cache Memory	512MB ~ 4GB / 1GB ~ 8GB DDR-II 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	Yes	Yes
Bad block auto-remapping	Yes	Yes
Enclosure		
Platform	Rackmount	Rackmount
Form Factor	2U	2U
# of Hot Swap Trays	24 (2.5")	24 (2.5")
Disk Status Indicator	Access / Fail LED	Access / Fail LED
Backplane	SAS / SATA II Single BP	SAS / SATA II Single BP
# of PS / Fan Modules	400W x 2 w/PFC	400W x 2 w/PFC
# of Fans	2	2
Power Requirements	AC 90V ~ 264V Full Range, 8A ~ 4A, 47Hz ~ 63Hz	
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	559(L) x 483(W) x 88(H) mm	559(L) x 483(W) x 88(H) mm
Weight (Without Disk)	14 / 15Kg	14 / 15Kg

Specification is subject to change without notice.
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