

# EPICa

**EP - 2123S2/D2-F8S6**

**EP - 2123S2/D2-FGS6**

**EP - 2123S2/D2-SCS6**

*2U 12-Bay Redundant Controller RAID Subsystem*



The EP-2123 series RAID subsystem features 8Gb FC-AL, 16Gb FC-AL or 12Gb SAS host performance to increase system efficiency and performance. The EP-2123 systems are equipped with 12 hot swappable SAS2/SATA3 hard disk drive bays. It can connect with expansion enclosures to accommodate up to 256 drives. The EP-2123D2 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-2123S2/D2-F8S6	EP-2123S2/D2-FGS6	EP-2123S2/D2-SCS6
<b>RAID Controller</b>	8Gb FC – 6Gb SAS	16Gb FC – 6Gb SAS	12Gb SAS – 6Gb SAS
<b>Controller</b>	Single or Redundant	Single or Redundant	Single or Redundant
<b>Host Interface</b>	Four / Eight FC-AL (8 Gb/s)	Two / Four FC-AL (16 Gb/s)	Two / Four 4x mini SAS HD (12Gb/s) (SFF-8644)
<b>Disk Interface</b>	6Gb/s SAS, 6Gb/s SATA HDD/SSD		
<b>SAS expansion</b>	One / Two 6Gb/s SAS (SFF-8644)		
- Direct Attached	12 Disks		
- Expansion	Up to 256 Disks		
<b>Processor Type</b>	1.2GHz Dual Core RAID-On-Chip processor		
<b>Cache Memory</b>	2GB ~ 8GB / 4GB ~ 16GB DDR3 ECC SDRAM		
<b>Management Port Support</b>	2 x RJ11 Serial Ports; 1 x RJ45 Ethernet Port		
<b>Battery Backup Module(BBM)</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>	12		
<b>Tray Lock</b>	Yes		
<b>Disk Status Indicator</b>	Access / Fail LED		
<b>Backplane</b>	SAS2 / SATA3 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>	590(L) x 482 (W) x 88(H) mm		
<b>Weight (Without Disk)</b>	18.2 / 19.7 Kg		

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UNIFOSA CORP.

Tel:886-2-2914-8001(Rep.) Fax:886-2-2914-7975

<http://www.proware.com.tw> E-mail:info@proware.com.tw

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