

# EPICa

**EP-3163S/D-S3S3**

**EP-3163S/D-F4S3**

**EP-3163S/D-F8S3**

**3U SAS-SAS/FC-SAS Redundant  
RAID Subsystem**



The EP-3163 series RAID subsystem features 3Gb SAS or 4Gb or 8Gb FC-AL host performance to increase system efficiency and performance. It features high capacity expansion, with 16 hot-swappable SAS/SATA II hard disk drive bays in a 19-inch 3U rackmount unit, scaling to a maximum storage capacity in the terabyte range. The EP-3163D series also supports dual controllers which provide better fault tolerance and higher reliability of system operation.

## 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

- ◆ Supports dual controller for features redundant RAID
- ◆ Supports RAID levels 0, 1, 0+1, 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
- ◆ Supports up to 128 LUNs
- ◆ 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
- ◆ Local audible event notification alarm
- ◆ Supports password protection
- ◆ Serial port interface for remote event notification
- ◆ Redundant flash image for high availability
- ◆ Support spin down drives when not in use to extend service (MAID)
- ◆ Supports Bad Blocks auto remapping and schedule volume check
- ◆ Redundant active-active controller functionality ensures zero downtime or data loss
- ◆ Fully redundant with hot swappable Controller, disks, cooling fans and power supplies
- ◆ Supports hot spare and automatic hot rebuild



# Series Technical Specifications

Model	EP-3163S/D-S3S3	EP-3163S/D-F4S3 EP-3163S/D-F8S3
<b>RAID Controller</b>	SAS-SAS	FC-SAS
<b>Controller</b>	Single or Redundant	Single or Redundant
<b>Host Interface</b>	Two 4x mini SAS (3Gb/s)	Two FC-AL(4Gb/s), Two FC-AL(8Gb/s)
<b>Disk Interface</b>	SAS 3Gb or SATA II	SAS 3Gb or SATA II
<b>SAS expander</b>	4x mini SAS (3Gb/s)	4x mini SAS (3Gb/s)
<b>Capacity</b>		
- Direct Attached	16 Disks	16 Disks
- Expansion	Up to 112 Disks	Up to 112 Disks
<b>Processor Type</b>	Intel IOP341 64-bit	Intel IOP341 64-bit
<b>Cache Memory</b>	512MB ~ 4GB DDR-II ECC 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, 0+1, 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>	3U	3U
<b># of Hot Swap Trays</b>	16	16
<b>Tray Lock</b>	Yes	Yes
<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>	500W x 2 w/PFC	500W x 2 w/PFC
<b># of Fans</b>	4	4
<b>Power requirements</b>	AC 90V ~ 264V Full Range, 10A ~ 5A, 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>	590(L) x 482 (W) x 131(H) mm	590(L) x 482 (W) x 131(H) mm
<b>Weight (Without Disk)</b>	24 / 25 Kg	24 / 25 Kg

Specification is subject to change without notice.

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