

# EPICa

**EP-3163S1/D1-S6S6**

**EP-3163S1/D1-F8S6**

**3U 6Gb SAS – 6Gb SAS / 8GbFC – 6Gb SAS**

**Redundant RAID Subsystem**



The EP-3163 series RAID subsystem features 6Gb SAS or 8Gb FC-AL host performance to increase system efficiency and performance. It features high capacity expansion, with 16 hot-swappable SAS2/SATA3 hard disk drive bays in a 19-inch 3U rackmount unit, scaling to a maximum storage capacity in the terabyte range. The EP-3163D1 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 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
- Support global and dedicated hot spare
- Online Volume Set Expansion
- Support multiple array enclosures per host connection
- Greater than 2TB per volume set (64-bit LBA support)
- Greater than 2TB per disk drive
- Supports 4K bytes/sector for Windows up to 16TB per volume set
- Disk scrubbing/ array verify scheduling for automatic repair of all configured RAID sets
- Login record in the event log with IP address and service (http, telnet and serial)
- Support intelligent power management to save energy and extend service life
- Support NTP protocol to synchronize RAID controller clock over the on-board LAN port
- Max 128 LUNs (volume set) per controller
- Transparent data protection for all popular operating systems
- Instant availability and background initialization
- Multi-path & load-balancing support (Microsoft MPIO)
- Automatic synchronization of firmware version in the dual-active mode
- 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.
- Redundant flash image for high availability
- Real time clock support



# Series Technical Specifications

Model	EP-3163S1/D1-S6S6	EP-3163S1/D1-F8S6
<b>RAID Controller</b>	6Gb SAS – 6Gb SAS	8Gb FC – 6Gb SAS
<b>Controller</b>	Single or Redundant	Single or Redundant
<b>Host Interface</b>	Two / Four 6Gb/s SAS (SFF-8088)	Four / Eight FC-AL (8 Gb/s)
<b>Disk Interface</b>	6Gb/s SAS, 6Gb/s SATA	6Gb/s SAS, 6Gb/s SATA
<b>SAS Expansion</b>	One / Two 6Gb/s SAS (SFF-8088)	One / Two 6Gb/s SAS (SFF-8088)
<b>Capacity</b>		
- Direct Attached	16 Disks	16 Disks
- Expansion	Up to 192 Disks	Up to 192 Disks
<b>Processor Type</b>	800MHz Dual Core RAID-On-Chip processor	800MHz Dual Core RAID-On-Chip processor
<b>Cache Memory</b>	1GB ~ 8GB / 2GB ~ 16GB DDR3-1333 ECC SDRAM	1GB ~ 8GB / 2GB ~ 16GB DDR3-1333 ECC SDRAM
<b>Battery Backup</b>	Optional	Optional
<b>Management 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>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 2.0</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>	SAS2 / SATA3 Single BP	SAS2 / SATA3 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	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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