# EPICa

## EP - 3163S2/D2-FGSC
## EP - 3163S2/D2-SCSC

*3U 16-Bay Redundant Controller RAID Subsystem*

The EP-3163 series RAID subsystem features 16Gb FC-AL or 12Gb SAS host performance to increase system efficiency and performance. The EP-3163 systems are equipped with 16 hot swappable SAS3/SATA3 hard disk drive bays. It can connect with expansion enclosures to accommodate up to 256 drives. The EP-3163D2 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-3163S2/D2-FGSC | EP-3163S2/D2-SCSC |
|---|---|---|
| RAID Controller | 16Gb FC – 12Gb SAS | 12Gb SAS – 12Gb SAS |
| Controller | Single or Redundant | Single or Redundant |
| Host Interface | Four / Eight FC-AL (16 Gb/s) | Two / Four 4x mini SAS HD (12Gb/s) (SFF-8644) |
| Disk Interface | 12Gb/s SAS, 6Gb/s SATA HDD/SSD | |
| SAS expansion | One / Two 12Gb/s SAS (SFF-8644) | |
| - Direct Attached | 16 Disks | |
| - Expansion | Up to 256 Disks | |
| Processor Type | 1.2GHz Dual Core RAID-On-Chip processor | |
| Cache Memory | 2GB ~ 8GB DDR3 ECC SDRAM (per controller) | |
| Management Port Support | 2 x RJ11 Serial Ports; 1 x RJ45 Ethernet Port | |
| Battery Backup Module(BBM) | Optional | |
| Flash-based Backup module (FBM) | Optional | |
| **RAID Features** | | |
| RAID level | 0, 1,10(1E), 3, 5, 6, 30, 50, 60, 00, 100, Single Disk and JBOD | |
| LUNs | Up to 128 | |
| Hot Spare | Global and Dedicated | |
| Stripe Size | Up to 1024KB | |
| Cache writing approaches | Write-through or write-back | |
| Online Rebuild | Yes | |
| Automatic drive insertion/ removal detection | Yes | |
| Multiple RAID selection | Yes | |
| Online Array roaming | Yes | |
| Online RAID level / stripe size migration | Yes | |
| Online capacity expansion | Yes | |
| Online volume set growth | Yes | |
| SNMP manager | Yes | |
| E-mail Notification | Yes | |
| Instant availability and background initialization | Yes | |
| HDD Xfer Speed Test | Yes | |
| Real time clock support | Yes | |
| RAID clock Synchronization | Yes (Using NTP) | |
| Multiple pairs SSD/HDD disk clone | Yes | |
| Multi-Path I/O (MPIO) Support | Yes | |
| **Enclosure** | | |
| Platform | Rackmount | |
| Form Factor | 3U | |
| # of Hot Swap Trays | 16 | |
| Tray Lock | Yes | |
| Disk Status Indicator | Access / Fail LED | |
| Backplane | SAS3 Single BP | |
| # of PS / Fan Modules | 500W x 2 w/PFC | |
| # of Fans | 4 | |
| Power Requirements | AC 90V ~ 264V Full Range 10A ~ 5A, 47Hz ~ 63Hz | |
| **Environmental** | | |
| Relative Humidity | 10% ~ 85% Non-condensing | |
| Operating Temperature | 10°C ~ 40°C (50°F ~ 104°F) | |
| Physical Dimension | 590(L) x 482 (W) x 131(H) mm | |
| Weight (Without Disk) | 24 / 25 Kg | |

*Specification is subject to change without notice. All company and product names are trademarks of their respective owners.*

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