EPICa

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

3U 16-Bay Redundant Controller RAID Subsystem

The EP-3163 series RAID subsystem features 16G 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

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Series Technical Specifications

Model	EP-3163S2/D2-FGSC	EP-3163S2/D2-SCSC
RAID Controller	16G FC – 12Gb SAS	12Gb SAS – 12Gb SAS
Controller	Single or Redundant	Single or Redundant
Host Interface	Four / Eight FC-AL (16G FC) Optional: 32G FC SFP+ module	Two / Four 4x mini SAS HD (12Gb) (SFF-8644)
Disk Interface	12Gb SAS, 6Gb SATA HDD/SSD	
SAS expansion	One / Two 12Gb 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 Powers	550W x 2 (80 PLUS)	
# of Fans	4	
Power Requirements	AC 100V ~ 240V Full Range 7A ~ 3.5A, 50Hz ~ 60Hz	

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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