

SB-3163-S3A3

3Gb SAS-SATA II RAID Subsystem



Highest Density Available

- ◆ 3U chassis with 16 bays carriers.
- ◆ Over 4 Terabytes per chassis.

Extraordinary fault tolerance

- ◆ Advanced Data Guarding technology (RAID ADG) provides the highest level of data protection.
- ◆ RAID ADG can tolerate multiple simultaneous drive failures without downtime or data loss.

Unparalleled Aluminum material

- ◆ Aluminum is an Excellent Thermal Conductor.
- ◆ Aluminum Exhibits HighStrength-to-Weight Ratio.

Extraordinary performance

- ◆ Serial ATA II: The Next Generation Internal Storage Interconnect.
- ◆ Better connectivity, higher data transfer rates.

Features

- ▶ Supports RAID levels 0, 1, 0+1, 3, 5, 6 and JBOD.
- ▶ Supports hot spare and automatic hot rebuild.
- ▶ Allows online capacity expansion within the enclosure.
- ▶ Local audible event notification alarm.
- ▶ Supports password protection and UPS connection.
- ▶ Built-in serial port interface for remote event notification.
- ▶ Dual host channels support clustering technology.
- ▶ The RAID subsystem is made by aluminum Aluminum is an excellent thermal conductor and Aluminum offers a unique combination of light weight and high strength.
- ▶ Tagged command queuing for 256 commands, allows for overlapping data streams.
- ▶ Transparent data protection for all popular operating systems.
- ▶ RAID ADG provides the highest level of data protection.
- ▶ RAID ADG can tolerate multiple simultaneous drive failures without downtime or data loss.
- ▶ Supports multiple array enclosures per host connection.

RAID Management

- ▶ Smart-function LCD panel.
- ▶ Environmental monitoring unit .
- ▶ Real time drive activity and status indicators.
- ▶ Browser-based GUI management utility.



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Series Technical Specifications



Model	SB-3163-S3A3
Form - factor	3U 19-inch rackmount chassis
RAID processor	Intel 80321 64 bit RISC
RAID level	0, 1, 0+1, 3, 5, 6, JBOD
Cache memory	256MB ~ 1024MB
Host bus interface	Two 4x mini SAS (3Gb/s)
Drive bus interface	SATA II
Data transfer rate	Up to 300MB/Sec per channel
Back plane board	SATA II
Hot-swap drive trays	Sixteen (16) 1-inch trays
Hot-swappable power supplies	Three (3) 300W power supplies w / PFC
Cooling fans	2 (blower)
Battery backup	Option
R-Link support	Yes
SNMP Protocol Support	Yes
Online capacity expansion, RAID level / stripe size migration	Yes
Redundant Flash image	Yes
Bad block auto-remapping	Yes
Background RAID Initialization	Yes
S.M.A.R.T	Yes
Array roaming	Yes
Power requirements	AC 90V ~ 254V Full Range 12A / 6A at 110V / 220V, 50Hz / 60Hz
Environmental	
Relative Humidity:	10% ~ 85% Non-condensing
Operating Temp:	10°C ~ 40°C (50°F ~ 104°F)
Physical Dimensions:	133 (H) x 482 (W) x 609 (D) mm 5.24 (H) x 18.98 (W) x 23.98 (D) inches
Weight	20.5kgs / 45.1Lbs (without drives)

Function:

- ◆ New disk auto spare ◆ Host independent ◆ Environment monitor ◆ Continuous rebuild ◆ Online consistency check ◆ Failed drive auto rebuild ◆ Failed drive indicators ◆ Audible alarm ◆ Password protection ◆ UPS connection ◆ Multiple RAID selection ◆ E-mail Notification

Specification are subject to change without notice.

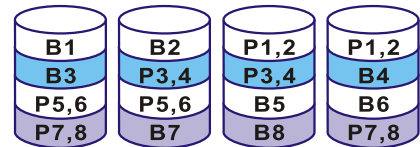
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- Proprietary elastic reactance design**
Smooth tray-swap experience.
- Excellent heat exchangers**
Hollow tray's panel.
- Pure Aluminum Case & component**
Lightweight & Excellent Thermal Conductor.
- Exceptional Bellows enclosure**
Specially designed airflow passages dissipate heat from the hard disks and the controller.
- Field Proven Power Supplies**
N+1 hot swappable and redundant Load Sharing PFC Power Supplies ensure system uptime for enterprise class reliability.
- Innovative Modular architecture**
Swappable power supplies, cooling fans and controller module.

The benefits of RAID ADG(RAID6)are :

- ◆ Advanced Data Guarding technology (RAID ADG) provides the highest level of data protection amount RAID levels .
- ◆ RAID ADG can tolerate multiple simultaneous drive failures without downtime or data loss. Greater fault tolerance than RAID 0+1 or RAID 5.



B means data blocks P means parity data

Any two drives can fail without loss of critical data at same time

Probability of logical drive failure for different RAID levels

