

SB-3163S-S3S3

3Gb SAS-SAS/SATA RAID Subsystem

SB-3163J-S3S3

3Gb SAS JBOD



SAS for Maximum Felxibility, **Scalability and Performance**

- SAS interface supports both SAS disk drives, with advanced enterprise level reliability and functionality, for data-intensive application and SATA disk drives for low-cost bulk storage of reference data
- Features the external minSAS 4x connector for external JBOD expansion
- Using Intel newest IOP for optimum RAID performance

Unsurpassed Data Availability

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

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, 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 (64-bit LBA support)
- Supports 4K bytes/sector for Windows up to 16TB per volume set
- Support spin down drives when not in use to extend service (MAID)
- Supports upto 122 physical drives and 32 LUNs per RAID set
- 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
- Supports hot spare and automatic hot rebuild
- Local audible event notification alarm.
- Supports password protection and UPS connection
- Built-in serial port interface for remote event notification
- Redundant flash image for high availability



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Series Technical Specifications



Model	SB-3163S-S3S3	SB-3163J-S3S3
Form-factor	3U 19-inch rackmount chassis	3U 19-inch rackmount chassis
RAID processor	Intel IOP341 64-bit	-
RAID Level	0, 1, 3, 5, 6, 30, 50, 60 and JBOD	-
Cache memory	256MB ~ 2GB DDR2 SDRAM	-
No. of channels (host+drive)	8 + 16	-
Host bus interface	Two 4x mini SAS (3Gb/s)	One 4x mini SAS (SFF-8088)
Drive bus interface	SAS or 3Gb/s SATA II	SAS or 3Gb/s SATA II
Data transfer rate	Up to 300MB/sec per channel	Up to 300MB/sec per channel
Expansion	One 4x mini SAS (SFF-8088)	Two 4x mini SAS (SFF-8088)
Controller Redundancy	Option	-
Hot-swap drive trays	Sixteen (16) 1-inch trays	Sixteen (16) 1-inch trays
Online capacity expansion,	Yes	-
RAID level/stripe size migration		
Online Volume sets expansion	Yes	-
Online Array roaming	Yes	-
Online consistency check	Yes	-
SMTP manager and SNMP agent	Yes	-
E-mail Notification	Yes	-
Redundant Flash image	Yes	-
R-Link support	Yes	-
Support over 2TB per volume	Yes	-
Instant availability and	Yes	-
background initialization		
S.M.A.R.T. support	Yes	Yes
New disk insertion / removal detection	Yes	Yes
Failed drive auto rebuild	Yes	-
Continuous rebuild	Yes	-
Multiple RAID selection	Yes	-
Bad block auto-remapping	Yes	-
Audial alarm	Yes	Yes
Password protection	Yes	Yes
UPS connection	Yes	-
SES2 enclosure management	Yes	-
Hot-swap power supplies	Two (2) 460W power supplies w/PFC	Two (2) 460W power supplies w/PFC
Cooling fans	4	4
Battery backup	Option	Option
Power requirements	AC 90V ~ 264V full range	AC 90V ~ 264V full range
•	8A ~ 4A, 47Hz ~ 63Hz	8A ~ 4A, 47Hz ~ 63Hz
Environmental		
Relative Humidity:	10% ~ 85% Non-condensing	10% ~ 85% Non-condensing
Operating Temp:	10°C ~ 40°C (50°F ~ 104°F)	10°C ~ 40°C (50°F ~ 104°F)
Physical Dimensions:	133 (H) x 482 (W) x 600 (D)mm	133 (H) x 482 (W) x 600 (D)mm
, c.ou. billionolono.	5.24 (H) x 18.98 (W) x 23.62 (D)inches	5.24 (H) x 18.98 (W) x 23.62 (D)inche
Weight	24.7kgs / 54.34Lbs (without drives)	24.7kgs / 54.34Lbs (without drives)
Specification are subject to change without notice.	ZT. rys / JT.JTLDS (WILLIOUL UTIVES)	27.7 Ngo / 34.34LDo (WILLIOUL ULIVES)

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Serial Attached SCSI Advantages

Four-wire Replacement for Parallel SCSI			
Software compatible "drop in" replacement	Low voltage (1600 mV max) differential signaling		
Contware companies arop in replacement	(8b10b encoding)		
"Star" Topology (Point-to-Point)			
Each device gets full bandwidth	Minimum arbitration overhead		
SAS Attributes Extend Capabilities beyond Parallel SCSI			
Dual-porting	Native support for either SATA or SAS drives		
16K devices (per domain)	Wide ports and rate matching		