

## Simbolo

SB-2123-F4S3

4Gb Fibre-SAS/SATA RAID Subsystem

SB-2123-S3S3

3Gb SAS-SAS/SATA RAID Subsystem



### SAS for Maximum Flexibility, 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.
- ▶ Using Intel newest IOP for optimum RAID performance.

### Unsurpassed Data Availability

- ▶ Advanced Data Guarding technology (RAID ADG) provides the highest level of data protection.
- ▶ RAID ADG 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.
- ▶ Supports spin down drives when not in use to extend service (MAID).
- ▶ 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.

# Technical Specifications

Model	SB-2123-F4S3	SB-2123-S3S3
Form-factor	2U 19-inch rackmount chassis	2U 19-inch rackmount chassis
RAID Processor	Intel IOP341 64-bit	Intel IOP341 64-bit
RAID Level	0, 1, 3, 5, 6, 30, 50, 60 and JBOD	0, 1, 3, 5, 6, 30, 50, 60 and JBOD
Cache Memory	512 MB ~ 2 GB DDR2 SDRAM	512 MB ~ 2 GB DDR2 SDRAM
Host bus interface	Two FC-AL (4Gb/s)	Two 4x mini SAS (3Gb/s)
Drive bus interface	SAS or 3Gb/s SATA II	SAS or 3Gb/s SATA II
Data transfer rate	Up to 400 MB/sec per channel	Up to 300 MB/sec per channel
Expansion	One 4x mini SAS (SFF-8088)	One 4x mini SAS (SFF-8088)
Hot-swap drive tray	Twelve (12) 1 inch trays	Twelve (12) 1 inch trays
Online capacity expansion, RAID level/stripe size migration	Yes	Yes
Online volume sets expansion	Yes	Yes
Online array roaming	Yes	Yes
Online consistency check	Yes	Yes
SMTP manager and SNMP agent	Yes	Yes
E-mail notification	Yes	Yes
Redundant flash image	Yes	Yes
R-Link support	Yes	Yes
Support over 2TB per volume	Yes	Yes
Instant availability and background initialization	Yes	Yes
S.M.A.R.T. support	Yes	Yes
New disk insertion / removal detection	Yes	Yes
Failed drive auto rebuild	Yes	Yes
Continuous rebuild	Yes	Yes
Multiple RAID selection	Yes	Yes
Bad block auto-remapping	Yes	Yes
Audial alarm	Yes	Yes
Password protection / UPS connection	Yes	Yes
SES2 enclosure management	Yes	Yes
Hot-swap power supplies	350 W x 2 power supplies w/PFC	350 W x 2 power supplies w/PFC
Cooling fans	2	2
Battery backup	Option	Option
Power requirements	AC 90 V ~ 264 V Full range 8 A / 4 A, 47 Hz ~ 63 Hz	AC 90 V ~ 264 V Full range 8 A / 4 A, 47 Hz ~ 63 Hz
Environmental		
Relative humidity:	10% ~ 85% Non-condensing	10% ~ 85% Non-condensing
Operating temperature:	10°C ~ 40°C (50°F ~ 104°F)	10°C ~ 40°C (50°F ~ 104°F)
Physical dimensions	88(H) x 482(W) x 650(D) mm 3.46(H) x 18.98(W) x 25.59(D) inches	88(H) x 482(W) x 650(D) mm 3.46(H) x 18.98(W) x 25.59(D) inches
Weight	13.5 kgs / 29.7 lbs (without drives)	13.5 kgs / 29.7 lbs (without drives)

Specifications are subject to change without notice.

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