

SB-2803-S3A3

3Gb SAS-SATA II RAID Subsystem



Highest Density Available

- ◆ 2U chassis with 8bays carriers.
- ◆ Over 2 Terabytes per chassis.

Extraordinary performance

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

Exceptional Manageability

- ◆ GUI for remote management and configuration.
- ◆ Menu-driven front panel display.

Unsurpassed value

- ◆ RAID ADG offers lower implementation costs and greater usable capacity per U than RAID 1.

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.
- ▶ 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 Java GUI management utility.



Proware Technology Corp.

Tel:886-2-2914-8001(Rep.) Fax:886-2-2914-7975
http://www.proware.com.tw E-mail:info@proware.com.tw



Series Technical Specifications



Model	SB-2803-S3A3
Form - factor	2U 19-inch rack-mount chassis
RAID processor	Intel 80321 64 bit RISC
RAID level	0, 1, 0+1, 3, 5, 6 and 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
Hot-swap drive trays	Eight (8) 1-inch trays
Hot-swappable power supplies	300W x 2 power supplies w / PFC
Cooling fans	2
Battery backup	Option
R-Link Support	Yes
SNMP Protocol Support	Yes
Online capacity expansion,	Yes
RAID level / stripe size migration	
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 95V ~ 264V Full Range 6A / 3A at 115V / 230V, 47Hz ~ 63Hz
Environmental	
Relative Humidity:	10% ~ 85% Non-condensing
Operating Temp:	10°C ~ 50°C (50°F ~ 122°F)
Physical Dimensions:	88 (H) x 482 (W) x 650 (D) mm 3.46 (H) x 18.98 (W) x 25.59 (D) inches
Weight	13.5kgs / 29.7Lbs (without drives)

Function:

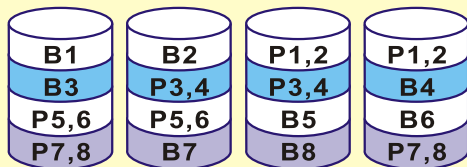
- ◆ New disk auto spare ◆ Host independent ◆ Environment monitor ◆ Online expansion ◆ Continuous rebuild ◆ Online consistency check ◆ Failed drive auto rebuild ◆ Failed drive indicators ◆ Audible alarm ◆ Password protection ◆ E-mail notification ◆ UPS connection ◆ Bad block auto-remapping ◆ Multiple RAID Selection ◆ Online RAID level migration ◆ Background RAID Initialization ◆ S.M.A.R.T.

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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

