

# Simbolo

**4Gb Fibre-SATA II RAID  
subsystem**



## Unparalleled Performance

- ◆ Dual high-speed 133MHz/64bit PCI-X bus for high data throughput need
- ◆ The overall performance can support up to two 4Gb Fibre host channels without bandwidth bottleneck

## Extraordinary fault tolerance

- ◆ 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, 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
- ▶ Supports multiple array enclosures per host connection
- ▶ Instant availability and background initialization
- ▶ Supports greater than 2TB per volume set (64-bit LBA support)
- ▶ Supports 4K bytes/sector for Windows up to 16TB per volume set
- ▶ Supports S.M.A.R.T, NCQ and OOB Staggered Spin-up capable drives
- ▶ Supports online Array roaming
- ▶ Online RAID level/stripe size migration
- ▶ Online capacity expansion and RAID level migration simultaneously
- ▶ Online Volume Set Expansion



**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



<b>Model</b>	<b>SB-3163E-F4A3</b>
<b>Form-factor</b>	3U 19-inch rackmount chassis
<b>RAID processor</b>	PowerPC 440SP
<b>RAID Level</b>	0, 1, 3, 5, 0+1, 6, JBOD
<b>Cache memory</b>	256MB ~ 4G
<b>No. of channels (host+drive)</b>	2 + 16
<b>Host bus interface</b>	FC-AL (4 Gb/s)
<b>Drive bus interface</b>	SATA II
<b>Data transfer rate</b>	Up to 400MB/Sec
<b>Controller Redundancy</b>	N/A
<b>Hot-swap drive trays</b>	Sixteen (16) 1-inch trays
<b>Online capacity expansion, RAID level/stripe size migration</b>	Yes
<b>Online Volume sets expansion</b>	Yes
<b>Online Array roaming</b>	Yes
<b>Online consistency check</b>	Yes
<b>SMTMP manager and SNMP agent</b>	Yes
<b>E-mail Notification</b>	Yes
<b>Redundant Flash image</b>	Yes
<b>R-Link support</b>	Yes
<b>Support over 2TB per volume</b>	Yes
<b>Instant availability and background initialization</b>	Yes
<b>S.M.A.R.T. support</b>	Yes
<b>New disk insertion / removal detection</b>	Yes
<b>Failed drive auto rebuild</b>	Yes
<b>Continuous rebuild</b>	Yes
<b>Multiple RAID selection</b>	Yes
<b>Bad block auto-remapping</b>	Yes
<b>Audial alarm</b>	Yes
<b>Password protection</b>	Yes
<b>UPS connection</b>	Yes
<b>Hot-swap power supplies</b>	Two (2) 460W power supplies w/PFC
<b>Cooling fans</b>	4
<b>Battery backup</b>	Option
<b>Power requirements</b>	AC 90V ~ 264V Full Range 8A ~ 4A, 47Hz ~ 63Hz
<b>Environmental</b>	
<b>Relative Humidity:</b>	10% ~ 85% Non-condensing
<b>Operating Temp:</b>	10°C ~ 40°C (50°F ~ 104°F)
<b>Physical Dimensions:</b>	133(H) x 482(W) x 600(D)mm 5.24(H) x 18.98(W) x 23.62(D)inches
<b>Weight</b>	24.7kgs / 54.34Lbs (without drives)

Specification are subject to change without notice.  
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1

**Proprietary elastic reactance design** : Smooth tray-swap experience.



2

**Excellent heat exchangers** : Hollow tray's panel.



3

**Innovative Modular architecture** : Swappable power supplies and cooling fans.