

Simbolo

iSCSI-SAS / SATA II RAID 6 Subsystem
SB-3164-G1S3



Unparalleled Performance

- ▶ Front-end 4 x 1Gb full iSCSI offload (complete ULP, TCP offload).
- ▶ Supports 802.3ad port trunking, Link Aggregation Control Protocol (LACP).
- ▶ High data bandwidth of system architecture by powerful 64-bit RAID processor.

Unsurpassed Data Availability

- ▶ RAID 6 capability provides the highest level of data protection.
- ▶ Supports snapshot-on-the-box w/o relying on host software.
- ▶ Supports Microsoft Windows Volume Shadow Copy Services (VSS).

Exceptional Manageability Menu-driven front panel display

- ▶ Management GUI via serial console, SSH telnet and secured Web (HTTPS).
- ▶ Online system firmware upgrade mechanism.
- ▶ Supports Microsoft Virtual Disk Service (VDS).
- ▶ Event notification via E-mail and SNMP trap.
- ▶ Menu-driven front panel display.

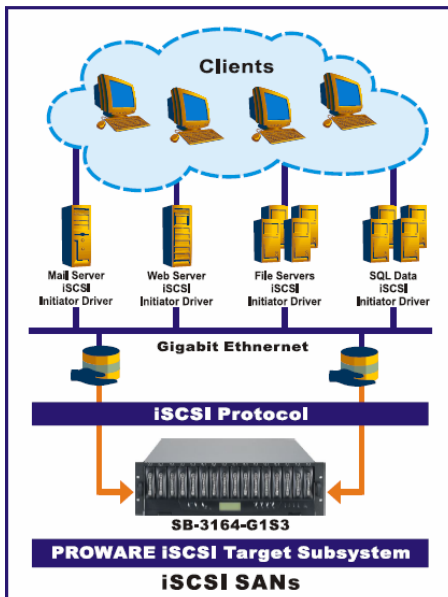
Features

- ▶ 4 x GbE ports support independent Access, fail-over or load-balancing (802.3ad port trunking, (LACP).
- ▶ Supports iSCSI jumbo frame.
- ▶ Supports Microsoft Multipath I/O (MPIO).
- ▶ Supports RAID levels 0, 1, 0+1, 3, 5, 6, 10, 30, 50, 60 and JBOD.
- ▶ Local N-way mirror: Extension to RAID 1 level, N copies of the disk.
- ▶ Global and dedicated hot spare disks.
- ▶ Write-through or write-back cache policy for different application usage.
- ▶ Dedicated or shared cache allocation for volume usage.
- ▶ Supports greater than 2TB per volume set (64-bit LBA support).
- ▶ Supports manual or scheduling volume snapshot (up to 32 snapshot).
- ▶ Snapshot rollback mechanism.
- ▶ Online volume expansion and migration.
- ▶ Instant RAID volume availability and background initialization.
- ▶ Supports S.M.A.R.T., NCQ and OOB Staggered Spin-up capable drives.
- ▶ Performance:
Read + write max 600MB/sec
Read / write max IOPS 120K

Technical Specifications

Model Number: SB-3164-G1S3

Form-factor: 3U 19-inch rackmount chassis	Online volume sets expansion: Yes
RAID Processor: Intel IOP342 64-bit (Chevelon dual core)	Configurable RAID stripe size: Yes
RAID Level: 0, 1, 0+1, 3, 5, 6, 10, 30, 50, 60 and JBOD	Instant RAID volume availability: Yes
N-way mirror (N copies of the disk): Yes	Background initialization: Yes
Cache memory: 512MB ~ 2GB DDR II	Supports over 2TB per volume: Yes
No. of channels (host + drive): 4 + 16	Online consistency check: Yes
Host bus interface: 1Gb/s Ethernet	Bad block auto-remapping: Yes
Drive bus interface: 3Gb/s SAS/SATA II	S.M.A.R.T. support: Yes
Hot-swap drive trays: Sixteen (16) 1-inch trays	New disk insertion/removal detection: Yes
Host Access control: Read-Write & Read-only	Auto volume rebuild: Yes
Supports CHAP authentication: Yes	Array roaming: Yes
802.3ad port trunking, LACP support: Yes	Audible alarm: Yes
Jumbo frame support: Yes	Password protection: Yes
Maximum logical volume: up to 1024	UPS connection: Yes
Maximum host connection: up to 32	Cooling fans: 4
Maximum host clustering: up to 16 for one logical volume	Battery backup: Option
Manual/scheduling volume snapshot: up to 32	Power requirements: AC 90V ~ 264V full range
Snapshot rollback mechanism support: Yes	8A ~ 4A, 47Hz ~ 63Hz
Supports Microsoft Multipath I/O (MPIO): Yes	Hot-swap power supplies: 2 x 460W w/ PFC
Supports Microsoft Virtual Disk Service (VDS): Yes	Environmental
Supports Microsoft Windows Volume Shadow Copy Services (VSS): Yes	Relative humidity: 10% ~ 85% Non-condensing
Global/dedicated cache configurable by volume: Yes	Operating temperature: 10°C ~ 40°C (50°F ~ 104°F)
Global and dedicated hot spare disks: Yes	Physical dimensions: 133(H) x 482(W) x 609(D) mm
Online volume migration: Yes	5.24(H) x 18.98(W) x 23.98(D) inches
	Weight: 24.7 kgs / 54.34 lbs (without drives)



Advantages of iSCSI

- ▶ Familiar network technology and management
 - Reduces training and staff costs.
- ▶ Proven transport infrastructure
 - Increases reliability.
- ▶ Transition from 1Gigabit Ethernet to 10Gigabit Ethernet and beyond
 - Protects investments with simplified performance upgrades scalability over long distances.
 - Enables remote data replication and disaster recovery.
- ▶ Brings Ethernet economics to storage
 - Enables lower total cost of ownership (TCO).
- ▶ Consolidation: iSCSI delivers seamless expandability, automatic load balancing, automatic storage provision, disaster recovery etc.
- ▶ Virtualization:
 - Scalable, highly available pool of storage.
 - Storage allocation and resizing on-demand.
 - Centralized management with remote Access.
 - Security that protects logical volumes from unauthorized access.
 - Snapshot and replication.
 - Volume mirroring, Multi-path host Access.

Specifications are subject to change without notice.

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