

# Simbolo Series

## SB-3164E-GIS3

*iSCSI-SAS / SATA II RAID Subsystem*



### Unparalleled Performance

- Front-end 4 x 1Gb iSCSI
- 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, Web and secure web(HTTPS)
- Event notification via Email and SNMP trap
- Menu-driven front panel display

### Features

- 4 x 1Gb 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
- 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



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# Series Technical Specifications



## Model Number : SB-3164E-G1S3

Form Factor: 3U 19-inch rackmount chassis	Configurable RAID stripe size
RAID processor: Intel IOP342 64-bit (Chevelon dual core)	Instant RAID volume availability and background initialization support
RAID Level: 0, 1, 0+1, 3, 5, 6, 10, 30, 50, 60 and JBOD	Supports over 2TB per volume
N-way mirror (N copies of the disk)	Online consistency check
Cache memory: 1GB ~ 2GB DDR II	Bad block auto-remapping
No. of channels (host+drive): 4 + 16	S.M.A.R.T. support
Host bus interface: 1Gb/s Ethernet	New disk insertion / removal detection
Drive bus interface: 3Gb/s SAS/SATA II	Auto volume rebuild
Hot-swap drive trays: Sixteen(16) 1-inch trays	Array roaming
Host access control: Read-Write & Read-Only	Audible alarm
Supports CHAP authentication	Password protection
802.3ad port trunking, LACP support	UPS connection
Jumbo frame support	Hot-swap power supplies: Two (2) 460W power supplies w/PFC
Maximum logical volume: up to 1024	Cooling fans: 4
Maximum host connection: up to 32	Battery backup(Optional)
Maximum host clustering: up to 16 for one logical volume	Power requirements: AC 90V ~ 264V full range
Manual/scheduling volume snapshot: up to 32	8A ~ 4A, 47Hz ~ 63Hz
Snapshot rollback mechanism support	Environmental
Supports Microsoft Multipath I/O (MPIO)	Relative Humidity: 10% ~ 85% Non-condensing
Supports Microsoft Windows Volume Shadow Copy Services (VSS)	Operating Temp: 10°C ~ 40°C (50°F ~ 104°F)
Global and dedicated hot spare disks	Physical Dimensions: 133(H) x 482(W) x 600(D)mm
Online Volume migration	Weight: 24.7kgs (without drives)
Online Volume sets expansion	

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## Advantages of iSCSI

- \* **Familiar network technology and management**
  - Reduces training and staff costs.
- \* **Proven transport infrastructure**
  - Increases reliability.
- \* **Transition from 1Gigabit Ethernet to 10 Gigabit Ethernet and Beyond**
  - Protects investment 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.