Simbolo Series

SB-3164E-GIA3

iSCSI-SATA II RAID subsystem

Unparalleled Performance

- Front-end 2 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

Exceptional Manageability
Menu-driven front panel display

- Management GUI via serial console, SSH telnet and Web
- Event notification via Email and SNMP trap
- Menu-driven front panel display

Features

- Front-end 2 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
- 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
- On-line volume migration with no system down-time
- Online volume expansion
- Instant RAID volume availability and background initialization
- Supports S.M.A.R.T, NCQ and OOB Staggered Spin-up capable drives

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Series Technical Specifications

Model Number : SB-3164E-G1A3

Form Factor: 3U 19-inch rackmount chassis	Configurable stripe size
RAID processor: Intel IOP341 64-bit	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: 512MB ~ 2048MB DDRII	Bad block auto-remapping
No. of channels (host+drive): 2 + 16	S.M.A.R.T. support
Host bus interface: 1Gb/s Ethernet	New disk insertion / removal detection
Drive bus interface: 3Gb/s 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 256	Cooling fans: 4
Maximum host connection: up to 32	Battery backup(Option)
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
Global/dedicated cache configurable by volume	Operating Temp: 10oC ~ 40oC (50oF ~ 104oF)
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	

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.