

# Simbolo

*iSCSI-SATA II RAID subsystem*



## Unparallel Performance

- Front end 2x1Gb 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 Web
- Support Microsoft Virtual Disk Service (VDS)
- Event notification via Email and SNMP trap
- Menu-driven front panel display

## Features

- Supports RAID levels 0, 1, 3, 5, 6, 10, 30, 50, 60 and JBOD.
- Supports iSCSI jumbo frame
- Supports Microsoft Multipath I/O (MPIO)
- Local N-way mirror: Extension to Raid 1 level, N copies 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 snapshot (up to 32 snapshot)
- Snapshot rollback mechanism
- On-lone 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

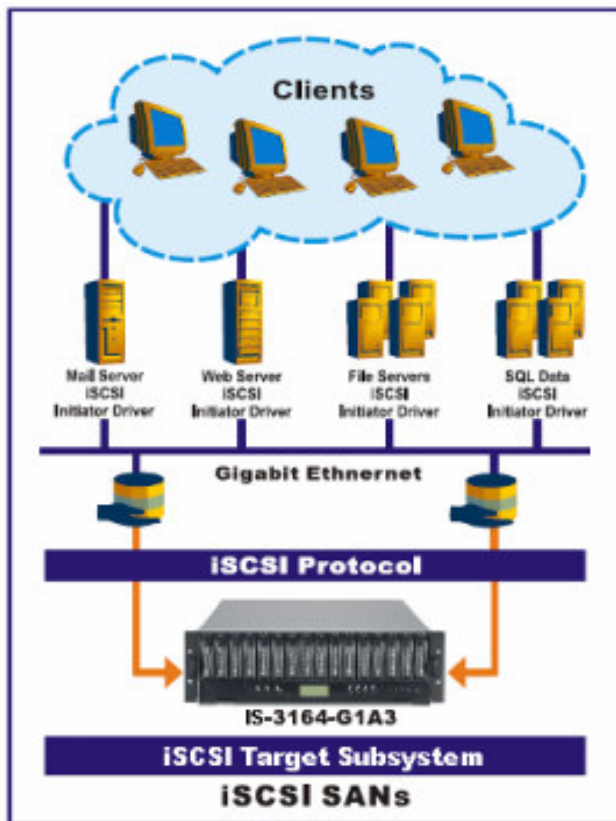
# Technical Specifications

## Model: IS-3164-G1A3

Form Factor: 3U 19-inch rackmount chassis  
RAID processor: Intel IOP331 64-bit  
RAID Level: 0, 1, 0+1, 3, 5, 6, 10, 30, 50, 60 and JBOD  
N-way mirror (N copies of the disk)  
Cache memory: 512MB ~ 2048MB  
No. of channels (host + drive):  
Host bus interface: 1Gb/s Ethernet  
Drive bus interface: 3Gb/s SATA  
Hot-swap drive trays: Sixteen (16) 1-inch trays  
Host access control: Read-Write & Read-Only  
Supports CHAP authentication  
802.3ad port trunking, LACP support  
Jumbo frame support  
Maximum logical volume: up to 256  
Maximum host connection : up to 32 for one logical volume  
Maximum host clustering: up to 8 for one logical volume  
Manual/scheduling volume snapshot: up to 32  
Snapshot rollback mechanism support  
Supports Microsoft Multipath I/O (MPIO)  
Supports Microsoft Virtual Disk Service (VDS)  
Supports Microsoft Windows Volume Shadow Copy Services (VSS)  
Global/dedicated cache configurable by volume  
Global and dedicated hot spare disks  
Online Volume migration

Online Volume sets expansion  
Configurable stripe size  
Instant RAID volume availability and background initialization support  
Supports over 2TB per volume  
Online consistency check  
Bad block auto-remapping  
S.M.A.R.T support  
New disk insertion / removal detection  
Auto volume rebuild  
Array roaming  
Audible alarm  
Password protection  
UPS connection  
Hot-swap power supplies: Two (2) 460W power supplies w/PFC  
Cooling fans:4  
Battery backup (Option)  
Power requirements: AC 90V ~ 264V full range  
8A ~ 4A, 47Hz ~ 63Hz  
Environmental  
Relative Humidity: 10% ~ 85% Non-condensing  
Operating Temp: 10°C ~ 40°C (50°C ~ 104°F)  
Physical Dimensions: 133(H) x 482(W) x 600(D)mm  
5.24(H) x 18.98(W) x 23.62(D)inches  
Weight: 24.7kgs / 54.34lbs (without drives)

Specifications are subject to change without notice. Company and product names are trademarks of their respective owners.



## Advantages

- Familiar network technology and management
  - Reduces training and staff costs.
- Proven transport infrastructure
  - Increase 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.