

iSCSI RAID ARRAY

Product Datasheet: SB-3164-G1S3



**iSCSI -to- SAS & SATA II**

**Network Storage Subsystem with Hardware RAID Protection**  
~ 400MB+/sec!

SB-3164-G1S3 is the most versatile data storage device that provides block level storage over gigabit network. It supports both SAS (Serial SCSI) and SATA disks to meet the requirements of different applications with different price/performance characteristics. Cost-effective SATA drives can be used for capacity orientated storage such as disk-to-disk backup, and data-archiving, or digital video editing. Enterprise level SAS drives can be employed for I/O intensive applications including transactional databases. **It also supports VMware for Server/Storage virtualization.**

**Excellent Performance**

- 4 x GbE ports support independently access, fail-over or load-balancing (802.3ad port trunking, LACP)
- Full iSCSI offload (complete ULP, CP offload)
- Supports iSCSI jumbo frame
- Supports Microsoft MPIO & MC/S (Multi-Connections/Single Session)

**Unsurpassed Data Availability**

- 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
- Supports snapshot-on-the-box w/o relying on host software
- Snapshot rollback mechanism
- Supports manual or scheduling volume snapshot (up to 32 snapshot)
- Supports Microsoft Windows Volume Shadow Copy Services (VSS)

**Exceptional Manageability Menu-driven front panel display**

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

**Host Clustering Ready**

- Supports Microsoft Server 2008 Clustering by SPC-3 compliant (SCSI-Persistent-Command)
- Supports up to 16 iSCSI initiator clients clustering to one logical volume

**Technical Specifications**

<b>Form Factor</b>	3U 19-inch rackmount chassis
<b>RAID processor</b>	Intel IOP80342 / 64-bit
<b>RAID Level</b>	0, 1, 0+1, 3, 5, 6, 10, 30, 50, 60 and JBOD; N-Way Mirror (N copies of the disks)
<b>RAID Functions</b>	<ul style="list-style-type: none"> <li>• Configurable stripe size</li> <li>• Global/dedicated cache configurable by volume</li> <li>• Global and dedicated hot spare disks</li> <li>• Online Volume migration &amp; expansion, Online Consistency-Check</li> <li>• Instant RAID volume availability and background initialization support</li> <li>• Supports over 2TB per volume</li> <li>• S.M.A.R.T. support, Bad block auto-remapping</li> <li>• New disk insertion / removal detection, Auto volume rebuild, Audible alarm</li> <li>• Support Array roaming</li> </ul>
<b>Cache Memory</b>	Standard with 512MB, support up to 2GB DDRII
<b>Host bus interface</b>	4 x 1Gb/s Ethernet
<b>Drive Number &amp; Type</b>	16 x SAS or SATA - II Disks, 3Gb/s, on Hot-Swap Trays & Cableless Backplane
<b>Host access control</b>	Read-Write & Read-Only; Supports CHAP authentication
<b>Network Ports</b>	<ul style="list-style-type: none"> <li>• 4 x 1Gb/s Ethernet, support Jumbo Frame,</li> <li>• Supports Port-Trunking, and 802.3ad LACP</li> <li>• Supports Microsoft Multipath I/O (MPIO) &amp; MC/S</li> </ul>
<b>Max. logical volume</b>	up to 1024
<b>Max. host connection</b>	up to 32 iSCSI initiator clients
<b>Max. host clustering</b>	up to 16 iSCSI initiator clients for one logical volume
<b>Snapshots</b>	<ul style="list-style-type: none"> <li>• Manual &amp; scheduling volume snapshot: up to 32 snapshots.</li> <li>• Snapshot rollback mechanism support</li> <li>• Supports Microsoft Windows Volume Shadow Copy Services (VSS)</li> </ul>
<b>Power Supply</b>	<ul style="list-style-type: none"> <li>• 2 x 460W power supplies w/PFC, Redundant &amp; HotSwap</li> <li>• AC 90V ~ 264V full range, 8A ~ 4A, 47Hz ~ 63Hz</li> </ul>
<b>Cooling</b>	4 x fans
<b>Environmental</b>	<ul style="list-style-type: none"> <li>• <b>Relative Humidity:</b> 10% ~ 85% Non-condensing</li> <li>• <b>Operating Temp:</b> 10oC ~ 40oC (50oF ~ 104oF)</li> </ul>
<b>Dimensions</b>	5.24"(H) x 18.98"(W) x 23.62"(D)
<b>Weight</b>	24.7kgs / 54.34Lbs (without drives)



Mission-Critical IT Infrastructures!

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