



## SAS-to-SAS/SATA RAID Subsystem

### Technical Specifications

<b>Model Number</b>	SB-3163S-S3S3
<b>Form Factor</b>	3U Rackmount x 16 Disks
<b>Raid Engine</b>	Intel IOP 341 XOR processor, 800MHz
<b>Cache Memory</b>	Up to 2GB DDR2/ECC Memory; Optional 72 Hours Battery Backup
<b>Raid Levels</b>	RAID-0, 1, 1E, 3, 5, 6, 10, 50, 60, JBOD; HotSpare, HotSwap, Auto-Rebuild
<b>Raid Features</b>	<ul style="list-style-type: none"> <li>• Multiple RAID Selection &amp; Array Roaming</li> <li>• Online RAID Level/Stripe size Migration &amp; Capacity Expansion &amp; Volume Set Growth</li> <li>• Volume Instant availability and background initialization</li> <li>• Greater than 2TB per Volume Supported</li> <li>• Disk Scrubbing / Array Verify scheduling for automatic repair of all raid sets</li> <li>• Login record in the event log with IP address and service</li> <li>• Support MAID - spin down drives when not in use to extend service life</li> <li>• Support NTP protocol to synchronize RAID controller clock over the on-board Ethernet port</li> <li>• Max 128 physical drives; Max 128 LUNs (volume set) per controller</li> </ul>
<b>Host Interface</b>	<ul style="list-style-type: none"> <li>• Two 4x mini SAS Connectors ( 2 x SFF8088 )</li> <li>• Support Two Servers/Applications Failover Clustering</li> </ul>
<b>Expansion Interface</b>	One 4x mini SAS Connectors (SFF -8088) to extra JBOD enclosure boxes
<b>Disks</b>	16 x 3.5" HotSwap SAS & SATA II HDDs
<b>Backplane</b>	Cableless Backplane
<b>LCD &amp; Indicator</b>	<ul style="list-style-type: none"> <li>• LCD Display with Input Buttons for setup, and error message display</li> <li>• System Status indication through LCD, LED and Alarm Buzzer; SES2 Ready</li> </ul>
<b>Raid Management</b>	<ul style="list-style-type: none"> <li>• Configure and Monitor by HyperTerminal via RS232, and/or Web Browser via LAN/RJ45</li> <li>• Embedded SMTP manager monitors all system events, and user can select to setup email alert notification to single or multiple recipients</li> </ul>
<b>Power Supply</b>	2 x 460W 1+1 HotSwap
<b>Dimension &amp; Weight</b>	5.24"(H) x 18.98"(W) x 23.62"(D); 55 LB without HDDs
<b>Scalability</b>	Chained by Tree Structure up to total of 84 disks in 7 Boxes

### Compatibility

<b>OS</b>	OS Independent & Transparent
<b>Host Bus Adapter</b>	<ul style="list-style-type: none"> <li>• LSI SAS HBA: LSISAS3801X &amp; LSISAS3801E</li> <li>• Areca ARC-1300</li> </ul>

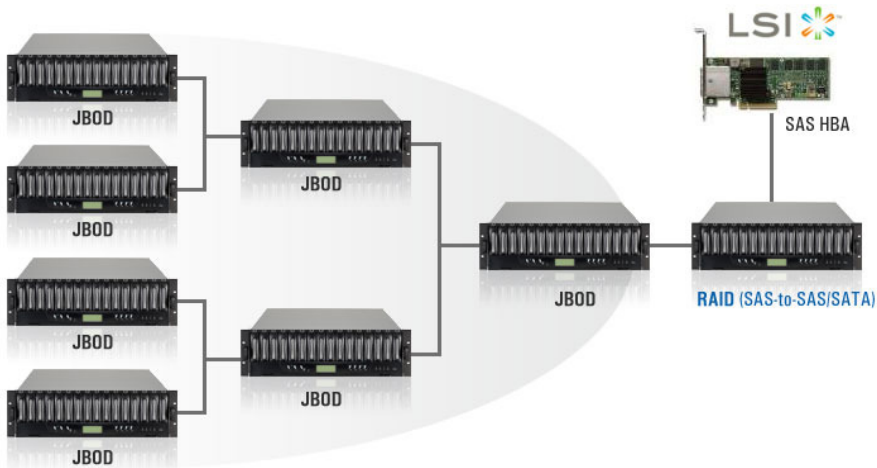


**Typical Applications**

- HD video editing applications which require high performance video streaming.
- Heavy duty backup applications which put multiple backup data streams to the storage in the shortest time with maximum amount of data, and also serves as a major component for the LAN-Free/Server-Free backup applications.
- Database applications which require high Random IO access.
- Any Application that needs a lots of capacity, such as archiving, etc.

**Features & Benefits**

- OS Independent & . Transparent
- Support Two Servers/Applications Failover Clustering by providing dual SAS ports to hosts
- Balance between budgets, performance & reliability by supporting both SAS & SATA II disks
- Single-Piece & Cableless Backplane Design
- Unique Tree-Structure which maintains performance and signal integrity while scaling up capacity

**Capacity Scalable with Tree -Structure**

Mission-Critical IT Infrastructures!

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