



## LSI™ SAS6160 Switch

### At-A-Glance

## LSI™ SAS6160: A SAS Switch

### What is the LSI SAS6160 switch?

The LSI SAS6160 switch is a 1/2 wide, 16-port switch that fits into the 1U form factor. The switch extends the capabilities of SAS in direct-attached storage (DAS) environments by allowing multiple servers to connect to one or more independent storage systems. Additionally, with its built-in zoning capabilities, the SAS6160 allows customer to securely share only selected storage resources. The SAS6160 is designed to provide customers with a low-cost and easy to use storage networking option for rack-mount server and storage installations in cloud computing, data center and small- to medium-sized business (SMB) environments.



LSI SAS 6160

### What environments will greatly benefit from the LSI SAS6160 switch?

- Applications needing shared and pooled storage
  - Benefit: Use fewer, larger storage arrays
- Applications needing increased connectivity
  - Benefit: Use multiple switches in a topology
- Applications needing higher availability
  - Benefit: Building a redundant configuration with two switches
- Configurations using tiered storage solution with SAS and SATA drives
- Customers wanting to lower storage acquisition cost without sacrificing expansion capabilities
- Customers wanting to efficiently connect multiple servers to multiple storage

### “Why LSI?”

- Performance by design
  - A high-performance 6Gb/s SAS storage interconnect
  - SAS wide bus aggregate bandwidth over 4 lanes
  - Each connection can run at 2400MB/s
- Reliability by design – Designed to easily allow a redundant configuration providing a high availability deployment
- Scalability by design – Connect up to 1,000 storage resources
- Quality by design – The newest addition to a growing family of 6Gb/s SAS products, built by LSI for top-tier computer companies, backed by LSI, training by LSI
- Compatibility by design - Stringent compatibility testing, performed by LSI, backed by LSI.
- High Bandwidth: Delivers up to 384Gb/s of aggregated bandwidth with 24Gb/s SAS connections on 16 x 4 SAS lanes.

## Q & A

### ■ *Does the LSI SAS Switch employ Fibre Channel protocol?*

No, it is pure SAS. It leverages SAS Expander technology to provide a scalable DAS environment. Using the SAS Switch Zoning feature allows you to securely share storage among multiple servers.

### ■ *Where would I use SAS6160 Switch?*

The SAS6160 is designed to enable shareable, scalable SAS with added zoning for added security. With its feature set, it is targeted at environments such as Data Centers, Hosting Locations, Cloud Computing and Virtualization.

### ■ *What type of SAS connectors does the SAS6160 support?*

The SAS6160 has Sixteen (16) x4 SFF8088 MiniSAS connectors. Two of the x4 SFF8088 connections are powered MiniSAS connectors that provide active copper cable support allowing up to 25 meter connection distances.

### ■ *What comes in the box when I order a SAS6160?*

- SAS6160 1U ½ Wide Switch
- SAS6160 Driver /Documentation CD

### ■ *What accessories are available for the switch?*

LSI provides accessories for the SAS6160 switch including a:

- SAS6160 1U mounting tray
- SAS6160 replacement power supply
- Active cables available in different lengths: 20m or 10m

### ■ *What hardware is the LSI SAS6160 compatible with?*

We publish a hardware interoperability list which includes a list of host-side SAS adapters and JBOD/RBODS. This list is available at [lsi.com/channel/support](http://lsi.com/channel/support).

### ■ *What support does LSI provide for the SAS6160 Switch?*

Access self-service downloads and documentation or find answers through our extensive Knowledge Base. Or contact our experienced technical support team 24 hours a day, 365 days a year to help resolve any issues. Visit <http://www.lsi.com/channel/ChannelDownloads/> for more information.

### ■ *Is there an evaluation or sample program?*

Yes, there are switches available for 60- or 90-day loan evaluations for qualified opportunities. Contact your LSI sales person for details.

For more information and sales office locations, please visit the LSI web sites at:

[lsi.com](http://lsi.com)     [lsi.com/channel](http://lsi.com/channel)

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