



Storageflex™ SJ 316 Intelligent RAID Array for SANs

Storageflex™ SJ316 SAS/SATA JBODs deliver industry-leading RAID 6 and RAID 5 performance, expanded scalability, robust fault tolerance, and multi-terabyte capacities. A PCI Express host interface sophisticated SAS and SATA II features drive this unrivaled performance.

Storageflex™ SJ 316

- On-board I/O RISC processor and RAID offload provides true hardware RAID
- Bootable array support for greater fault tolerance of your OS
- Variable stripe size for performance tuning by application
- Support for greater than 2TB volumes
- 512MB DDR2 533 memory with ECC protection
- 128 max disk drives via SAS expanders
- Complete configuration management suite
- SNMP support
- SMTP support for email/pager notification
- Staggered drive spin-up support
- Auto carving allows LUNs > 2TB to be divided into multiple units for legacy operating systems limited to 2TB max. per LUN
- Battery Backup Unit (BBU) with remote battery support
- Write journaling for improved performance and data protection against accidental drive removal
- Multiple SAS/SATA RAID sets
- Multiple logical unit sizes and RAID levels on one card
- Hot-swap and hot-spare support for data availability
- Dynamic sector repair for robust data protection
- S.M.A.R.T. disk drive monitoring for reliability
- Emergency Flash Recovery protects against failed firmware upgrade
- Drive activity LED support
- Array/Drive Status and drive identification LED support
- Enclosure management via I2C and SES 2.0
- Drive insertion and removal notification
- Online Capacity Expansion and RAID Level Migration
- RoHS 6 of 6 and WEEE compliant



*16 x 3.5" Hot Swap SAS/SATA
Drive Bays in 3U Form Factor*

It's Time for SAS

Storageflex pioneered the way for SATA and now capitalizes on time-proven serial storage expertise to take users from SCSI to SAS. We seized the moment to enter the market just as SAS hard drives, expanders and backplanes are more widely available and as enterprise infrastructures align to realize the potential of Serial Attached SCSI.

As SAS makes inroads into the SCSI market, users will look to SAS to provide expanded connectivity and greater scalability and to Storageflex for peace of mind.

Connect, Expand, Protect with SAS

Advanced RAID architecture and SAS, SATA, and SATA II performance features, including 3Gb/s and NCQ, help rocket the SJ316 to RAID 5 and RAID 6 performance heights. Embedded Battery Backup Unit with integrated write journaling and remote battery mounting capability provides added data protection in the event of a power outage. The SJ316 supports RAID levels 0, 1, 5, 6, 10, 50, and Single Disk.

The RAID 6 Difference

RAID 6 eliminates the risk of data loss if a second hard disk drive fails while the RAID array is rebuilding. Uniquely, in the Storageflex RAID 6 implementation, two sets of parity are simultaneously calculated, written, and rotated across all the drives. This second parity calculation enables the array to survive up to two drive failures without losing data, significantly improving fault tolerance. Our RAID 6 double parity algorithm maximizes RAID 6 throughput, so that the raid controllers delivers unequalled RAID 6 write performance.

Enterprise-class RAID Storage

SAS is the preferred interface for the direct-attach server space, SCSI's former mainstay. SAS is for mission critical applications that require higher levels of availability and native expansion. SAS is optimized for the random performance requirements of the data center. Our advanced RAID features, SAS connectivity, powerful performance architecture make it the ideal SCSI controller replacement.

