

Synergy HDLs™

High-Density, High Demand, and High Definition, cost-effective storage designed for Avid LANshare™ systems.

FEATURES

Mammoth storage capacity.

Large storage capacity. Fully populated with sixteen drives, creates capacities of up to 8TB with enterprise class 500GB , SATA drives. Independent SATA drive channels provide the maximum in performance and availability.

High Throughput.

The dual 2GB Fibre Channel host ports provide up to 400MB/sec bandwidth with full access to storage on all ports.

Complete Data Protection.

High speed, high availability RAID controller brings full RAID protection to the Avid LANshare™ environment.

Total Uptime.

Even during rebuilds Synergy HDLs LANshare™ users can continue to work. Drive failure is no longer a major issue that stops productivity.

Version agnostic.

Synergy HDLs works with LANshare™ versions 3.x - 4.x. Compatible with 2GB, and 4GB fibre channel infrastructure. Vdisk™ technology (Pat. Pend.) assures compatibly now and in the future.

Remote Management.

Web based or RS-232 RAID tools makes monitoring and set up easy. Full RAID management tools makes it easy to setup Password protected monitoring and management is available anywhere on the internet.

Synergy HDLs™ storage systems deliver 4 or 8 Terabytes (TB) of storage in a compact 3 rack unit design within a 16 drive chassis. The Synergy HDLs has a built-in hardware RAID to manage the storage more efficiently and automatically rebuilds a faulty drive, so the rest of the network is unaffected by the drive failure. With Synergy HDLs, up to 8TB of external RAID protected storage is supported on an Avid LANshare™ system.

Synergy HDLs is certified for use with Avid LANshare™ 3.x through 4.x All systems are pre-configured, just plug into a storage port on your LANshare™ and add to or create a data set. Operation is transparent to the LANshare™ system. Archion's hardware RAID controller consistently checks, identifies and repairs drive errors while insuring constant data flow. If a drive should fail to perform the hot spare drive kicks in and automatically and seamlessly rebuilds the data. Clients continue to work, log off, and log on as normal without interfering with the Lanshare™ operation. The Synergy HD RAID controls and manages the disk drives, RAID sets, and Vdisks in a more efficient manner, requiring far fewer drives than Avid™ storage subsystems to deliver higher capacities and resolutions. Hardware RAID means more protected usable storage at approximately 1/3 of the cost of Avid™ storage

Synergy HDLs hardware RAID controller provides better protection with less storage overhead than Unity™ RAID. The RAID level 5 protection in 8TB Synergy HDLs gives 6.2TB of useable storage which is over 50% more than mirroring. It is compatible with 2GB and 4GB LANshare™ environments from versions 3.x to 4.x. This allows one to expand their existing LANshare™ today without expensive upgrades, and it will work with the new system when they are ready to upgrade.

Order Number	SLS-4TB	SLS-8TB
Total Storage	4TB	8TB
Usable Storage* - LANshare configuration	3TB	6TB
Drive size	Sixteen 250GB Drives	Sixteen 500GB Drives
Drive Cache	16MB	16MB
Controller Cache	256MB	256MB
Service and Support	90 days of telephone support and one year limited warranty on hardware, three year on drives, optional extended service and support products	

* Usable Storage is the amount of RAID 5 protected storage. This capacity may vary based on the type of Configuration.

T E C H N I C A L S P E C I F I C A T I O N S

Designed for LANshare™:

Avid LANshare Versions 3.5 to 4.x LANshare EX - EX3

Can be expanded to a maximum of 6TB with the addition of a Synergy HDLs 4TB chassis. LANshare only supports one expansion chassis with a maximum of 5 fibre clients

LANshare LP

Can be expanded to a maximum of 16TB with the addition of a Synergy HDLs 8TB chassis. LANshare only supports one expansion chassis with a maximum of 5 fibre clients. Compatible with 4TB and 8TB Synergy HDLs.



Storage

Sixteen drives with independent Serial ATA (SATA) channels supporting up to 8TB storage. Synergy HD comes fully populated with drives in the three capacities:

- 250GB 7200 RPM Enterprise Class SATA II with 16MB on board cache
- 500GB 7200 RPM Enterprise Class SATA II with 16MB on board cache

All drives are SMART capable for drive status analysis.

RAID Controller and Cache

- Synergy HDLs RAID controller with Archion's Vdisk™ technology and RS-232 and Ethernet RAID management GUI.
- 256 MB of cache RAM tuned for digital video applications.

RAID Operation

- RAID levels 0,1,3,5, and 50 within the controller
- Pre-configured for Avid LANshare with three raid 5 sets.
- Supports multiple RAID sets, multiple hosts, LUN masking, and storage provisioning of all Vdisks on both ports for switch less file sharing.
- Automatic failover and background rebuilding of drives. Global hot spare covers all drives.

FC and Host Connections

- Dual 2GB Fibre Channel ports with optical SFP's (included)
- Full compatibility with 1, 2 and 4GB fibre channel architecture.
- Support for loop, point to point and fabric architectures.
- Ethernet and RS-232 port for out of band management and remote event notification.

Cooling

- Redundant, hot-swappable fans with automatic speed control and front to back cooling.
- Built-in environmental management for constant optimal temperature control of entire chassis.

Electrical

- Three redundant 2+1 hot-swappable power supplies (600W) universal input (100-240V AC)
- Maximum input current 6A at 100-120V or 3A at 220-240V
- Frequency: 47Hz to 64Hz, single phase
- Power Usage: 300W typical continuous power, 500W maximum continuous power.
- ROHAS compliant

Environmental Requirements

- Operating Temperature 50 to 95 F
- Relative Humidity 5% to 95% non condensing
- Maximum Thermal Output 1500 BTU's per hour
- Maximum Altitude 10000 feet
- FCC Class A Approved

Dimensions and Weight

- Height: 3RU Rack-mounted
- Width: 17 inches (43.2 cm)
- Depth: 27.875" (70.8 cm)
- Fits industry-standard 19-inch racks from 24 to 36 inches deep. Deeper racks require extender
- Weight: 155 pounds (52.1 kg)

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Intelligent Storage for Content Creation

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