

Synergy HD δ (delta)™

Blazingly Fast and High Density cost-effective storage designed for Digital Video SANs

FEATURES

Mammoth storage capacity.

Fully populated with sixteen drives, creates capacities of up to 16TB with enterprise class 1TB, 16MB drive cache, high speed SATA II drives. Independent 3 MB/sec SATA II drive channels provide the ultimate in performance and availability.

High speed throughput.

Dual 4GB fibre channel ports provide the highest throughput available. A maximum of 800 MB/sec of high speed transfer for HD and SD video and audio data.

Complete Data Protection.

High speed, high availability RAID controller brings full RAID protection to the NLE environment.

Total Uptime.

Even during rebuilds, Synergy HD δ ™ Users can continue to work. Drive failure is no longer a major issue that stops productivity.

Version agnostic.

Synergy HD δ ™ works with FC SAN's. Compatible with 1GB, 2GB, and 4GB fibre channel infrastructure. Vdisk™ technology (Pat. Pend.) assures compatibility now and in the future.

Remote Management.

Web based RAID tools makes monitoring and set up easy. Full raid management tools for SMTP, and SNMP makes it easy to setup email notification and event management. Password protected monitoring and management is available anywhere on the internet.

Synergy HD δ (delta) is the new addition to the Archion Synergy family of FC Raid storage products for digital video systems. It extends the Synergy HD abilities to a full 800 MB/sec bandwidth with its dual 4GB FC ports and has increased its capacity to 16TB. Synergy HD δ provides full 4GB FC performance for todays digital video SAN's.

Synergy HD δ storage systems deliver 4, 6, 8, 12 or 16TB of storage in a compact 3 rack unit design with 16 drive chassis. The Synergy HD δ line 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.

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. The Synergy HD δ RAID controls and manages the disk drives, RAID sets, and Vdisks in a more efficient manner, requiring far fewer drives than most storage subsystems to deliver higher capacities and resolutions.

Synergy HD δ hardware RAID controller provides better protection with less storage overhead. The RAID level 5 protection in 12TB Synergy HD δ gives 10TB of useable storage which is over 60% more than mirroring. Synergy HD δ comes configured for dual switch environment and also can be configured for dual port operation on a single 4GB switch.

Order Number	SHDU-4TB	SHDU-8TB	SHDU-12TB	SHDU-16TB
Total Storage	4TB	8TB	12TB	16TB
Usable Storage*	3TB	6.5TB	10TB	12.5TB
Drive size	Sixteen 250GB Drives	Sixteen 500GB Drives	Sixteen 750GB Drives	Sixteen 1TB Drives
Drive Cache	16MB	16MB	16MB	16MB
Controller Cache	1GB	1GB	1GB	1GB
Service and Support	90 days of telephone support and one year limited warrenty 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.

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

Certified SANs:

Archion Alliance Turnkey SANs
Apple Xsan
Qlogic
ATTO Technology

Works With Your Tools:

Avid Media Composer
Avid Nitris
Avid Xpress Pro
Final Cut Pro Studio
Adobe Premiere Pro
Adobe After Effects
Vegas
Pro Tools
AJA
Blackmagic



Storage

Sixteen drives with independent Serial ATA (SATA II) channels supporting up to 16TB storage. Synergy HD δ comes fully populated with drives in the three capacities:

- 250GB 7200 RPM Enterprise Class SATA II with 16MB on board cache
- 400GB 7200 RPM Enterprise Class SATA II with 16MB on board cache
- 500GB 7200 RPM Enterprise Class SATA II with 16MB on board cache
- 750GB 7200 RPM Enterprise Class SATA II with 16MB on board cache
- 1TB 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 HD δ RAID controller with Archion's VdiskTM technology and Ethernet RAID management GUI.
- 1GB of cache ram tuned for digital video applications
- Controller is user removeable.

RAID Operation

- RAID levels 0,1,3,5,6 and 50 within the controller
- 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 4GB 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.
- Supports storage provisioning across ports for load balancing for maximum throughput (up to 800 MB/sec).
- Ethernet 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

- Redundant hot-swappable power supplies (550W) universal input (100-240V AC)
- Maximum input current 8A at 100-120V or 4A at 220-240V
- Frequency: 47Hz to 63Hz, single phase
- Power Usage: 400W 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 Rackmounted
- Width: 17 inches (43.2 cm)
- Depth: 19.25" (48.9 cm)
- Fits industry-standard 19-inch racks from 24 to 36 inches deep. Deeper racks require extender
- Weight: 100 pounds (45.3 kg)

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ArchionTM

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824 N. Victory Blvd. Burbank, CA 91502 Toll Free: (888) 655-8555 www.archion.com