

## Synergy HDu™

Faster speed, and Higher Density cost-effective storage designed for Avid Unity MediaNetwork™ systems.

### FEATURES

#### Mammoth storage capacity.

Fully populated with sixteen drives, creates capacities of up to 12TB with enterprise class 750GB, 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.

A maximum of 400 MB/sec of high speed transfer for HD and SD video and audio data. Dual 2GB fibre channel ports provide the highest throughput available.

#### Complete Data Protection.

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

#### Total Uptime.

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

#### Version agnostic.

Synergy HDu™ works with Unity™ versions 3.x - 5.x. 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 HDu 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 400 MB/sec bandwidth and has increased its capacity to 12TB. Its Unity compatibility and abilities are unmatched. Keeping with the Synergy standard of legacy compatibility, Synergy HDU is fully compatible with 1GB, 2GB and 4GB Unity and of course with Archion's Synergy.

Synergy HDu storage systems deliver 4, 6, 8, or 12TB Terabytes (TB) of storage in a compact 3 rack unit design with 16 drive chassis. The Synergy HDu 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. With Synergy HDu, up to 40 TB of RAID protected storage is supported on an Avid Unity MediaNetwork™ system. Configurations based on MEDIArray™ storage will only allow 20TB of protected storage (mirrored).

Synergy HDu is certified for use with Avid Unity Media Networks™ 3.x through 5.x. All systems are pre-configured, just plug into a storage port on your Unity and add to or create a data set. Operation is transparent to the Unity™ 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 Unity™ operation. The Synergy HDu 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 HDu hardware RAID controller provides better protection with less storage overhead than Unity™ RAID. The RAID level 5 protection in 12TB Synergy HDu gives approximately 9TB of useable storage which is over 60% more than mirroring. Synergy HDu comes configured for dual switch environment and also can be configured for dual port operation on a single 4GB switch. This allows full load balancing that is not available with Avid™ storage. It is compatible with 1GB, 2GB and 4GB Unity™ environments, from versions 3.x to 5.x. This allows one to expand their existing Unity™ today without expensive upgrades, and it will work with the new system when they are ready to upgrade.

Order Number	SHDU-4TB	SHDU-6TB	SHDU-8TB	SHDU-12TB
Total Storage	4TB	6TB	8TB	12TB
Usable Storage* - Unity configuration	3TB	4.5TB	6TB	9TB
Drive size	Sixteen 250GB Drives	Sixteen 400GB Drives	Sixteen 500GB Drives	Sixteen 750GB 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 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.

## TECHNICAL SPECIFICATIONS

### Certified SANs:

Archion Alliance Turnkey SANs  
Avid Unity™ Versions 3.x to 5.x  
Apple Xsan  
Qlogic  
ATTO Technology

### Works With Your Tools:

Avid Media Composer  
Avid Nitris  
Avid Xpress Pro  
Final Cut Pro Studio  
Adobe Premier Pro  
Adobe After Effects  
Vegas  
Pro Tools



### Storage

Sixteen drives with independent Serial ATA (SATA II) channels supporting up to 12TB storage. Synergy HD comes fully populated with drives in the three capacities:

- 250 GB 7200 RPM Enterprise Class SATA II with 16MB on board cache
- 400 GB 7200 RPM Enterprise Class SATA II with 16MB on board cache
- 500 GB 7200 RPM Enterprise Class SATA II with 16MB on board cache
- 750 GB 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 HDu RAID controller with Archion's Vdisk™ technology and Ethernet raid management GUI.
- 512 MB 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
- Pre-configured for Avid Unity.
- 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.
- Supports storage provisioning across ports for load balancing for maximum throughput (up to 400 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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Intelligent Storage for Content Creation

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