

Fibre RAID

Storage Solution and Expansion Unit

Features That Make a Difference:

- Scales from 15 to 51 drives (up to 51 TB¹)
- Writes data to a SAN at block-level for superior performance
- Single² or Dual Active-Active Controllers
- Leverages industry-standard Intel[®] architecture
- High performance RAID levels and snapshot support
- Robust RAID fault tolerance
- Dual fibre 2Gb/s and dual 1Gb/s Ethernet ports per controller
- Easy to install setup wizard
- Includes an intuitive and integrated browser-based storage manager interface
- Redundant and modular design with hot-swappable components
- SAS module for daisy chaining up to three Expansion Units for a scalable solution



Fibre RAID Storage Solution



Fibre RAID Expansion Unit

The American Dynamics[®] Fibre RAID Storage solution is designed for high-performance recording devices such as the VideoEdge[®] Network Video Recorder. It is a secure and highly scalable solution that provides SAN storage for your Windows[®], Macintosh[®], and Linux[®] server networks.

The storage solution comes standard with 72-hour battery-backed cache protection plus full redundancy and serviceability for power supplies and fans. If configured with an optional dual-controller, it can provide high-availability with active failover capability, and without interruption, as nearly every component is hot-swappable.

A full set of RAID configurations (RAID Level 0, 1, 5, 10, and global hot spare) and suite of storage provisioning and security features is provided.

The Fibre RAID Storage Solution provides two fibre channel ports and two Ethernet ports as its standard controller configuration.

The integrated Fibre RAID Storage Manager browser-based interface enables remote assignment and management of networks settings, fibre parameters, and RAID volumes. It supports snapshots, SNMP, component health monitoring, online capacity expansion, drive diagnostics/inspection, bad sector reconstruction, LUN masking, chap authentication, plus telnet and serial console management. A six step setup wizard makes it easy to install and simple to administer so that adding Fibre Raid Storage or reconfiguring with Expansion Units is a straight forward process.

For a scalable solution, you can daisy-chain up to three Fibre RAID Expansion units to support up to 51 TB of raw storage. By supporting an optional second controller, the Fibre RAID Storage Solution offers best-in-class system fault tolerance by providing mirrored battery-backed cache, multi-path I/O management, double data channels, and seamless failover down to the last drive. Storage for all 51 drives is centralized under the single Fibre RAID Storage Manager console to simplify storage management.

(1) Based on current 1.00 TB capacity SATA-II drives
 (2) Factory default settings

Model Number Configuration Table

	BRAND	FAMILY	TYPE	CONFIGURATION	TOTAL (RAW) STORAGE	
<i>EXAMPLE</i> Fibre RAID Storage Solution (add up to 3 Expansion Units)	AD American Dynamics	F Fibre	RS RAID Storage	S Single Controller	XXXX 0375 = 3.75 TB 0750 = 7.50 TB	1125 = 11.25 TB 1500 = 15.00 TB
Fibre RAID Expansion Unit	AD American Dynamics	F Fibre	ES Expansion Storage	S Single Controller	XXXX 0300 = 3.00 TB 0600 = 6.00 TB	0900 = 9.00 TB 1200 = 12.00 TB

Fibre RAID Storage Solution (ADFRSxxxx)

- 3U, 15-drive with single controller
- Four different capacity models ranging from 3.75 TB to 15.00 TB of total raw storage
- Pre-configured with four RAID5 sets and global hot spare² for performance and reliability
- Available RAID5 storage capacities² are estimated at 2.50 TB, 5.00 TB, 7.50 TB and 10.00 TB

Fibre RAID Expansion Unit (ADFESSxxxx)

- 2U, 12-drive with single controller
- Four different capacity models ranging from 3.00 TB to 12.00 TB of total raw storage
- Attach and configure new storage via Fibre RAID Storage Manager

Fibre HBA Kit (ADFRSHBAD2)

- 1x dual-port 2 Gb PCI-X fibre host bus adapter
- 2x fibre optic transceivers
- 2x fibre optic cables

Fibre RAID Storage System Specifications

Physical

Dimensions (HxWxD) 131 x 445 x 629 mm (5 x 17.5 x 25 in)
 Weight 40.82 kg (90 lbs, fully configured)
 Voltage 100-240VAC @ 50/60 Hz
 Input Current 7.0A (100 VAC), 3.5A (230 VAC)

Environmental

Temperature
 Operating 10° to 35°C (50° to 95°F)
 Non-Operating 10° to 52°C (50° to 126°F)
 Storage 1° C to 60°C (20°F to 60°F)
 Humidity
 Operating 10% to 90% non-condensing
 Non-Operating 10% to 80% non-condensing
 Storage 5% to 80% non-condensing
 Altitude
 Operating 0 to 3000 m (0 to 10,000 ft)
 Non-Operating 0 to 10000 m (0 to 30,000 ft)
 Storage 0 to 10000 m (0 to 30,000 ft)
 Airflow 2.8 m³/min (100 ft³/min)

Operational

Number of RAID Controller(s) . . (1) single² or (2) dual = HA
 RAID Levels Supported RAID 0, 1, 5, 10, global hot spare
 Max Disk Groups Up to four disk groups (= RAID sets)
 Max Drives Per Group Up to 24 drives
 Max Capacity Per Group Up to 16 TB
 Max Virtual Disks 256 total (= LUNs)
 Processor(s) Intel® Pentium-4
 Memory 1GB DDR, persistent 72 Hr cache battery backup
 External Interfaces
 (Per Controller) (2) 2 Gb fibre channel for data
 (2) 1GbE for management
 (1) SAS for expansion
 Max Drives Per Enclosure . . . (15) SATA-II (7200 rpm)²; (15) SAS (15000 rpm)
 Hot Swappable Disk drives
 Hot-Swap & Redundant Power supplies; Fans; RAID controllers (if dual)
 Total Expansion Capacity 51 TB³ total raw storage (Fibre RAID Storage with three Fibre RAID Expansions)

Regulatory

Agency Approvals IEC 60950-1, EN 60950-1 UL 60950-1, UL 94, G4943, FCC A, EN55022 (CISPR 22), EN55024 (IEC61000-4-2,3,4,5,6,8,11), EN6100-3-2 (IEC61000-3-2), EN610003-3 (IEC61000-3-3), EN60950 (IEC950)

Fibre RAID Expansion Unit System Specifications

Physical

Dimensions (HxWxD) 88 x 446 x 687 mm (3.5 x 17.5 x 27 in)
 Weight 29.03 kg (64 lbs, fully configured)
 Voltage 100-240VAC @ 50/60 Hz
 Input Current 8.0A (100 VAC), 4.0A (230 VAC)

Environmental

Temperature
 Operating 10° to 35°C (50° to 95°F)
 Non-Operating 10° to 70°C (50° to 158°F)
 Storage 1° to 60°C (20° to 60°F)
 Humidity
 Operating 20% to 80% non-condensing
 Non-Operating 10% to 95% non-condensing
 Storage 5% to 80% non-condensing
 Altitude
 Operating 0 to 3000 m (0 to 10,000 ft)
 Non-Operating 0 to 10000 m (0 to 30,000 ft)
 Storage 0 to 10000 m (0 to 30,000 ft)
 Airflow 2.8 m³/min (100 ft³/min)

Operational

Number of RAID Controller(s) . . (1) single² or (2) dual = HA
 External Interfaces
 (Per Controller) (3) SAS for expansion
 Max Drives Per Enclosure . . . (12) SATA-II (7200 rpm)²; (12) SAS (15000 rpm)
 Hot Swappable Disk drives
 Hot-Swap & Redundant Power supplies; Fans; RAID controllers (if dual and required if Fibre RAID Storage is dual)

Regulatory

Agency Approvals IEC 60950-1, EN 60950-1 UL 60950-1, UL 94, G4943, FCC A, EN55022 (CISPR 22), EN55024 (IEC61000-4-2,3,4,5,6,8,11), EN6100-3-2 (IEC61000-3-2), EN610003-3 (IEC61000-3-3), EN60950 (IEC950)

(2) Factory default settings

(3) Based on current 1.00 TB capacity SATA-II drives

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