

Nothing Stands
Between You
and Your Data

Aria

dataDIRECT
NETWORKS

Fibre Channel Performance Network Storage System

THE MEGA DRIVE™ ARIA™ FIBRE CHANNEL DISK ARRAY FROM DATA DIRECT NETWORKS™ is part of a new generation of high-performance data storage systems based on the Fibre Channel Arbitrated Loop (FC-AL) interconnect standard. FC-AL offers low system overhead and over 98 percent efficiency, making the Aria far more efficient than traditional SCSI-based systems.

The Aria revolutionizes data-intensive computing environments with its modular scalability, virtually unlimited upgrade path, and performance up to 2.5 times faster than today's fastest SCSI-based systems. It has been designed with a completely platform-independent architecture and utilizes GaAs Loop Resiliency Circuits (LRC) enabling users to hot-swap drive modules on-the-fly. And, the Aria's twin hot spare fans and power supplies, combined with an onboard power management system, keep data constantly online and available.

PERFORMANCE

The Aria's amazing 200MB/sec dual loop throughput makes it an ideal solution for digital broadcast, post-production, prepress, and other image-intensive applications. This ground-breaking performance makes it possible for facilities to easily and affordably handle multiple streams of uncompressed, full-frame NTSC or HDTV content.

CAPACITY

The Aria is capable of storing up to 144GB per array using 18GB drive modules. And, because the Aria can be daisy-chained, you can easily add storage incrementally as your needs grow, seamlessly expanding to a multi-terabyte, Fibre Channel solution.

CONNECTIVITY

The Aria simultaneously supports both *channel* protocols such as SCSI, IPI, and HIPPI and *network* protocols such as ATM, TCP/IP, and FDDI on the same Fibre loop. Utilizing the FC-AL architecture, the Aria provides intelligent device management for up to 126 devices on a single loop and 16 million devices in a switched fabric.

DATA INTEGRITY

The Aria is built around a low-noise active backplane that delivers maximum data integrity by eliminating noise-inducing internal cables. The system also features Loop Resiliency Circuits (LRC) that assure clean drive removal and replacement without bus errors. And, with dual arbitrated loop redundancy, the Aria provides the bulletproof reliability required for mission-critical environments.

FIELD PROVEN

Applications range from digital broadcast, post-production and prepress to visual simulation and other image/compute-intensive applications.



The Fibre Channel Arbitrated Loop (FC-AL) is a high-performance interconnect standard designed for bi-directional, point-to-point serial data transfer between desktop workstations, mass storage subsystems, peripherals, and host systems.

Fibre Channel is orders of magnitude faster than existing interconnect standards, capable of simultaneously transmitting data bi-directionally at rates exceeding 1 gigabit per second. It is also capable of supporting both *channel* protocols (SCSI, IPI, and HIPPI) and *network* protocols (ATM, TCP/IP, and FDDI) over both optical fiber and copper cable.

Fibre Channel clearly is becoming the next-generation interface standard, providing high-speed, low-latency connections ideal for high-performance, image-intensive applications and other compute-intensive environments.

SPECIFICATIONS

Performance Data Rate:

200MB/sec throughput (*dual loop - full duplex*)

Compatibility:

SGI, Sun, Windows NT, Mac OS, DEC Alpha, IBM RS/6000

Array Capacity:

144GB maximum capacity (*using 18GB 3.5" drive modules*)
per Tower/Rack

Drive Support:

3.5" 7200 or 10,000RPM drives;
maximum 8 drives per enclosure

Distance Support:

25 meters (*copper*), 10,000 meters (*optical*)

Software-based RAID:

RAID (0, 1, and 0+1) software for Windows NT, SGI, and Sun Solaris resides in host operating system. High-performance RAID 0, 1, 0+1, and 5 software is available for Macintosh systems from DataDirect Networks.

Drive Capacity:

9GB or 18GB 3.5" drive modules

Configuration:

Fibre Channel Arbitrated Loop architecture

Options:

Built-in 4-Port Hub for small workgroups

DIMENSIONS:

Aria (Tower)

Height / Width / Depth: 7" / 17.3" / 14"
Weight (*w/o drive modules*): 25 lbs.

Aria (Rackmount)

Height / Width / Depth: 7" / 17.3" / 14"
Weight (*w/o drive modules*): 25 lbs.

Drive Modules:

Weight (*3.5" drive modules*): 2 lbs.

POWER REQUIREMENTS:

Voltage/AC: 83-245V @ 47-63Hz
Power (*idle, max*): 140W @ 120V; 200W @ 120V

Operating Environment

Temperature / Humidity: 5 to 35 C / <20%

Non-Operating Environment

Temperature / Humidity: -20 to 85 C / <80%

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