Infortrend and ATTO Digital Media Solution

The Challenge

Digital media professionals working with 4K/Ultra HD content are driving a need for storage configurations that enable multiple users to share a common “pool” for continuous, high-bandwidth access to data. Along with high-performance, this data management and storage infrastructure must provide expandable capacity and the ability to archive digital assets. However, many still contend with fragmented storage solutions that don’t fulfill the high-availability, high-performance demands of today’s digital media applications. Additionally, there is also the problem of rising storage costs due to the increasing volume of high-resolution content.

The Solution

Infortrend EonStor DS 3000 systems for SAN/DAS deliver the performance and features to give creative workplaces the ability to handle multi-stream Ultra High-definition/4K video. These enterprise storage systems are available with form factors extending from compact 12-bay to high density 60-bay, all driven by optimized hardware and software. Storage throughput reaches 5,500MB/s read and 2,200MB/s write, while processing power goes as high as 1.3M IOPS.

At the entry-level, Infortrend EonStor DS 2000 and EonStor DS 1000 systems deliver a high return on investment. Designed to meet the needs of small production studios, they are capable of 30 read and 10 write HD (720p) streams, or an average 155MB/s throughput load. Both the EonStor DS 2000 and DS 1000 systems offer 2U and 3U form factors with 12-bay, 16-bay, and 24-bay configurations and are scalable via high density 48-bay/60-bay JBODs.

ATTO Technology’s Celerity Fibre Channel Host Bus Adapters with MultiPath Director™ provide completely redundant, high-performance connectivity for workstation and server applications to Infortrend’s EonStor DS storage. The only storage connectivity solution that lets users manage multiple paths between Windows, Linux and Mac hosts and high-end storage systems, MultiPath Director enables streamlined user workflows and the protection of digital assets via consistent, reliable data transfers.

Expanding the Picture

Thunderbolt™ technology brings high-performance connectivity for laptops and all-in-ones to the centralized EonStor DS storage pool. ATTO’s Thunderbolt-enabled Desklink™ Devices convert the Thunderbolt protocol to Fibre Channel, enabling seamless integration of these mobile computer platforms into the existing Fibre Channel SAN.

	EonStor DS 1000 / DS 2000	EonStor DS 3000
Media & Entertainment	HD format: Up to 30x Read, 10x Write streams	(1) 2K format: Up to 8 x Read or 4x Write streams (2) 4K format: Up to 4 x Read or 1x Write streams

Solution Benefits

- **Superior Performance**
  Load balancing increases overall system performance by using more than one Fibre Channel path to transfer data
- **Improved Productivity**
  Workstations and servers can share storage, enabling collaborative workflows and real-time access to content to meet project deadlines
- **Continuous Uptime**
  Automatic path and storage controller failover and failback provides uninterrupted access to data
- **Flexible Connectivity**
  Mix Windows, Linux and Mac workstations and servers in a heterogeneous environment; connect laptops and all-in-ones into the existing Fibre Channel SAN with ATTO's Thunderbolt™ enabled Desklink™ devices
- **Simplified Management**
  EonStor storage is easily expanded and managed, while ATTO Configuration Tool simplifies administration and troubleshooting of multiple paths to storage
- **Flexible, Future-proof Configuration**
  With systems ranging from 2U 12-bay to 4U 60-bay, the EonStor DS family allows enterprises to build storage capacity on demand. Modular hardware means redundancy and easy upgrades

Solution Components

Infortrend/ATTO Interoperability Matrix			
Products	Celerity™ 16 & 8Gb/s Fibre Channel HBAs	ThunderLink FC 2162/2082 Desklink™ Devices	FibreConnect 1600/8300 Fibre Channel Switches
EonStor DS 3000 Series	✓	✓	✓
EonStor DS 2000 Series	✓	✓	✓
EonStor DS 1000 Series	✓	✓	✓

Solution Topology