

Aero[®] Tape SDLT[®]

The Pinnacle in Data Security Solutions



A New Level of Data Archiving

Aero SDLT streaming tape drives are designed to backup and restore mid-range and enterprise network servers which require maximum archiving performance and capacity. Through Super DLTtape technology innovations in Laser Guided Magnetic Recording, Pivotal Optical Servos, Magneto-Resistive Cluster Heads, PRML Channels and Advanced Metal Powder Media, the Aero SDLT becomes the new performance standard in data security solutions.

With a sustained data transfer rate of 72MB/second and data capacity of 600GB per cartridge with compression, the Aero SDLT offers a major advance in magnetic tape backup technology. Burst SCSI transfer rates reach 160MB/s with an average file access time of only 70 seconds.

Advanced Data Security Features

The Aero SDLT offers the highest level of data reliability and integrity available in half-inch cartridge media. With an Uncorrected Error Rate of 1×10^{17} bits read and Undetected Error Rate of 1×10^{27} bits read, advanced error checking algorithms assure your data is correctly recorded and available for restoration. And with an MTBF rating of 250,000 hours, your investment is maximized for years to come.

Knowing that any data security solution is only as good as its media, Aero SDLT tape drives utilize leading-edge Super DLTtape II tape cartridges. Each cartridge is rated at 1,000,000 passes with a shelf life of more than 30 years with less than 10% loss in demagnetization. High-impact polyvinyl chloride cartridge enclosures protect your data from a variety of elements including shock, dust and moisture.

SCSI Enhancement Technology for Enhanced Data Throughput

PerifiTech[®]'s award-winning SCSI Enhancement Technology is included in its family of Intera network servers. This technology, which includes a disk I/O tuning process along with SCSI management software, allows attached peripherals to reach their full capabilities without effecting data integrity. As a result, Aero SDLT tape drives connected to Intera servers achieve performance levels which significantly surpass OEM data throughput specifications.

Select non-PerifiTech servers can be upgraded with PerifiTech's SCSI Enhancement Technology, allowing attached Aero SDLT tape drives to exceed base level performance specifications.

Libraries for Even Greater Capacity

Aero SDLT Libraries are available in a variety of capacities and configurations to meet the backup requirements of virtually any environment. From gigabyte transactional servers to unattended, multi-terabyte enterprise networks, an Aero SDLT Library can be matched to fulfill any requirement.

Multiple OS Support

For optimal performance, PerifiTech offers Computer Associates* BrightStor* ARCserve* software for all Aero products. Under BrightStor, all popular network operating systems are supported including Microsoft* Windows* 2003, Novell* Netware* and a full range of Unix* variants. Combined with a wide selection of options and client agents, including SUN*/Solaris*, HP*/UX* and IBM*/AIX*, BrightStor and Aero SDLT tape drives team up to create a powerful data security solution, able to meet the demands of today's expanding networks.

Key Features:

- **Super DLTtape[®] Technology**
Provides unsurpassed capacity and backup/restore throughput
- **Up to 600GB per Tape**
Reduces multiple tape data search
- **72MB/s Sustained Transfer Rate**
Assures quick file access
- **Backward Read Compatibility**
Reads Super DLTtape I media
- **Laser Guided Magnetic Recording**
Provides ultra reliable tape read/write operations
- **Multiple OS Support**
Multi OS compatibility in a single, cost-effective solution
- **MTBF up to 250K Hours**
Maximizes operation and protects investment
- **Internal or External Models**
Provides integration flexibility
- **External and Rack Libraries**
Performs unattended multi-terabyte backup

PerifiTech 
Where Performance is Paramount

<http://www.perifitech.com>

Product Specifications

Performance

Sustained Transfer Rate: 36MB/sec, Native
72MB/sec, Compressed
Burst Transfer Rate: 160MB/sec
Avg. File Access Time: 79 sec.
Formatted Capacity: 300GB, Native
600GB, Compressed
Cartridge BOT Load Times: 12 sec., formatted tape
40 sec., unformatted tape
Interfaces: LVD, Ultra 160 SCSI
HVD, Ultra SCSI

Tape Format Specifications

Recording Format: 640track serial serpentine
Recording Density: 233 k bits per inch
Track Density: 1490 tracks per inch
Encoding Method: Partial Response Maximum Likelihood (PMRL)
Data Compression: DLZ

Reliability

MTBF: 250K hours @ 100% duty cycle
Media Durability: 1,000,000 passes (17,850 uses)
Uncorrected Error Rate: 1 X 10⁻⁷ bits read
Undetected Error Rate: 1 X 10⁻⁷ bits read

Power Requirements

Voltage: +5V, +12V DC
Power Consumption: 26W (avg. read/write operation)

Environmental

Ambient Temperature: Operating: 50° to 104°F (10° to 40°C)
Non Operating: -40° to 151°F (-40° to 66°C)
(excluding media)
Relative Humidity: Operating: 20% to 80%
Non Operating: 10% to 95%
Altitude: Operating: -500 to 30K feet

Media Compatibility

Super DLTtape II: 300GB native capacity
Super DLTtape I (read only): 160GB native capacity

Super DLTtape II Media Specifications

Tape Type: Advanced Metal Powder (AMP)
Width: 0.498 inches
Length: 1957 feet
Cartridge Dimensions: W 4.1" x L 4.1" x H 1.0"
Cartridge Weight: 7.85 ounces
Operating Environment: Temperature: 50° to 104°F (10° to 40°C)
Relative Humidity: 20% to 80% non-condens.
Storage Environment: Temperature: 60° to 90°F (16° to 32°C)
(non-archival) Relative Humidity: 20% to 80% non-condens.
Storage Environment: Temperature: 64° to 82°F (18° to 28°C)
(archival) Relative Humidity: 40% to 60% non-condens.
Tape Shelf Life: More than 30 years with less than 10% loss
in demagnetization (at 20°C and 40% non-
condensing humidity)
Usage: Average 1,000,000 head passes in typical
office/computing environment
Cartridge Housing Color: Blue

SDLT Warranty

3 year limited warranty - parts & labor

Library Models

Call for latest models.

Available Tape Control Software

Computer Associates BrightStor ARCserve for MS Windows, Novell
Network and Unix. Options and client agents available.
Call for latest release information.

Internal Single Drives Include:

Internal SDLT Drive
Mounting Hardware
Data Cartridge

External Single Drives Include:

External SDLT Drive & Terminator
Power Cable
Data Cartridge



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