



Key Features and Benefits

- High performance—5 MB per second native transfer rate
- High capacity—35 GB native capacity
- Reliability—Recording head life of more than 30,000 hours, media durability greater than 1,000,000 media passes
- Backward compatibility—Read and write backward compatible with all DLT formats

Data Storage and Retrieval for Backup, Archive, and Near On-Line Storage Applications

The Market

With the growth of workgroup networking, enterprise computing, corporate intranets, and the Internet, dependable data backup, archiving, and storage are vital top-level concerns of every information manager. Quantum DLT™ 7000 half-inch cartridge tape drives address these needs by delivering dependable data storage and retrieval along with major advantages in performance and capacity versus all other products in their class. That's why today, the Quantum DLT 7000 is the tape system of choice for mid-range computers, network servers, high-end workstations, and mainframe environments running UNIX, NetWare®, and Windows® NT, as well as proprietary operating systems.

The Evolution of A Leader.

We built the Quantum DLT 7000 on a very solid foundation—the same performance-proven linear recording technology, precision tape guiding system, and adaptive control mechanism of previous generation DLT drives. Then, we raised the standard even higher through a number of refinements and technical innovations. For instance, the DLT 7000 features a new, innovative Symmetric

Phase Recording Technique (SPR™) and a flexible four-channel recording system to achieve a native transfer rate in excess of 5 megabytes per second and a native capacity of 35 gigabytes (GB). The DLT 7000 also utilizes the same efficient, performance-proven data compression and advanced tape directory functionality used in previous generations of DLT products.

Quantum Quality and Reliability

Like all Quantum products, Quantum DLT tape drives set the standard for performance and reliability. For instance, head life is rated at more than 30,000 hours. Media durability is estimated in excess of 1,000,000 media passes. To ensure complete data accuracy, the drive also features Reed-Solomon Error Correction Code, a 64-bit Cyclical Redundancy Check (CRC), and parity checking on the SCSI bus and internal data path. This high level of precision and reliability is why you can always trust your data to a Quantum drive.

SPECIFICATIONS

Quantum DLT 7000

Performance Specifications

Sustained Transfer Rate (MB/sec)	
Native	5
Compressed	10*
Burst Transfer Rate (MB/sec)	
Synchronous	20
Asynchronous	12
Formatted Capacity	
Native	35
Compressed	70*
Average File Access (sec)	60
Interface	SCSI-2 Fast/Wide (Single-ended or Differential)

Tape Format Specifications

Recording Format	208 Track Serial Serpentine
Recording Density	86 kbits per inch
Track Density (tpi)	416
Encoding Method	RLL 2,7
Data Compression	DLZ

Reliability Specifications

MTBF	300,000 hours
Head Life	30,000 hours
Media Durability	1,000,000 passes (15,000 uses)
Uncorrected Error Rate	1 x 10 ¹⁷ bits read
Undetected Error Rate	1 x 10 ²⁷ bits read
Warranty (years)	3

Physical Specifications

Dimensions—inches (mm)	Table Top	Rack Mount**
Height	4.87 (124)	3.25 (82.5)
Width	9.0 (229)	5.75 (144.8)
Length	12.75 (325)	9.0 (228.6)
Weight—pounds (kg)	15 (6.63)	6 (2.9)

Environmental Limits

Operating	
Temperature °F (°C)	50 to 104 (10 to 40)
Non-Condensing Humidity (%)	20 to 80
Altitude (ft. maximum)	40,000
Non-Operating	
Temperature °F (°C)	-40 to 151 (-40 to 66) excluding media
Non-Condensing Humidity (%)	10 to 95
Altitude (ft. maximum)	40,000

Power Specifications

Voltage	+5V, +12V
Power Consumption (typical)	37 Watts

Media/Format Compatibility

DLTtape III	2.6, 6, and 10 GB native capacities
DLTtape IIIXT	15 GB native capacity
DLTtape IV	20 and 35 GB native capacities
DLT Cleaning Tape	20 uses

Read/Write compatible with all previous DLT formats

Tape Life

Archive Storage	More than 30 years with less than 5% loss in demagnetization (at 20°C and 40% non-condensing humidity)
Durability	Average 1,000,000 head passes in typical office/computer environment

* Actual transfer rate and capacity will vary depending on data

**Excluding bezel.

Quantum DLTtape Media Cartridges

Approved for use in all DLTtape drives and libraries, Quantum DLTtape half-inch cartridge tapes are backed by a limited lifetime warranty.



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For More Information

For more information about Quantum's quality products, call toll-free: 1-800-624-5545 in the U.S.A. and Canada, or visit www.quantum.com and www.dltpape.com

Specifications subject to change without notice.

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