

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

RELIABILITY

Features and Benefits

- **High performance**—5 megabytes per second native transfer rate
- **High capacity**—35 gigabytes native capacity
- **Reliability**—Recording head life of more than 30,000 hours, media durability of greater than 1,000,000 media passes
- **Backward compatibility**—Read and write backward compatible with all DLTtape formats
- **TapeAlert™ compatible automated monitoring and diagnostics**—For preventive maintenance and error recovery
- **Three year warranty**—Proven reliability

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.

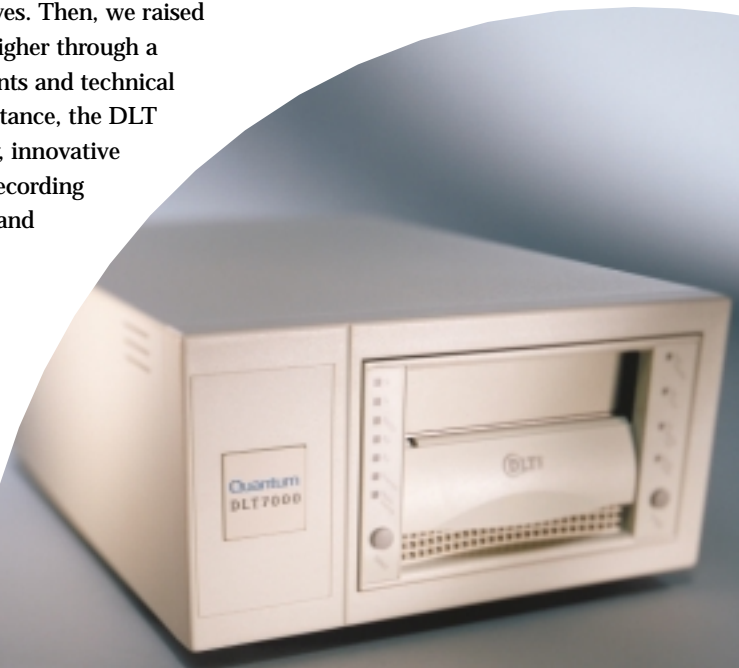
The Evolution of A Leader

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 DLTtape™ 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

Performance Specifications

Sustained Transfer Rate (MB/sec)	
Native	5
Compressed	10 ¹
Burst Transfer Rate (MB/sec)	
Synchronous	20
Asynchronous	12
Formatted Capacity	
Native	35
Compressed	70 ¹
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 (hours)	200,000 @ 100% duty cycle
Head Life (hours)	30,000
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)	2

Physical Specifications

Dimensions—inches (mm)	Table Top	Internal ²	
	Width	9.0 (228.6)	5.75 (144.8)
	Length	12.75 (325)	9.0 (228.6)
	Height	4.87 (124)	3.25 (82.5)
Weight—pounds (kg)	15 (6.63)	6 (2.9)	

Environmental Limits

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

Power Specifications

Voltage (V)	+5, +12
Power Consumption (typical, W)	32

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
Read/write compatible with all previous DLTtape formats	
DLTtape Cleaning Cartridge	20 uses

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

Quantum DLTtape Media Cartridges

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



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.dlftape.com

Quantum.
DLT™ 7000

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