

## Dependable, High-Capacity DLTtape Backup for Mid-Range and High-End Computer Systems

RELIABILITY

### Features and Benefits

- **High performance**—1.5 megabytes per second native transfer rate
- **High capacity**—20 gigabytes native capacity
- **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

In today's fast-paced, information-based society, preserving and protecting data is vital for virtually every institution. This is especially true with today's high-speed, high-capacity, mid-range computers; high-end workstations; and high-volume network servers. To meet the crucial data backup needs of these powerful systems, Quantum developed the DLT 4000 half-inch cartridge tape drive. With advanced linear recording technology and a precision tape guidance system, the DLT 4000 drives meet the challenge with ease.

### A Perfect Combination of Performance and Capacity

In data backup, speed and capacity are paramount. Quantum DLT 4000 drives deliver both with a sustained native transfer rate of 1.5 megabytes (MB) per second and a native capacity of 20 gigabytes (GB). This combination provides an effective backup solution for high-end workstation, server, and network backup requirements.

### Engineered for Performance and Reliability

To ensure outstanding performance with unquestionable reliability, Quantum DLT 4000 drives employ many advanced design features. For instance, they utilize

a dual-channel read/write system to maximize performance. To ensure the fastest-possible access times, the DLT 4000 drives use a unique tape mark directory. The drives also support high-efficiency data compression and compaction to deliver maximum performance and capacity. Adaptive cache buffering optimizes operation with varying host transfer rates.

### Quantum Reliability and Data Integrity

Like all Quantum products, Quantum DLTtape™ drives set the standard for quality and reliability. The inherent design of DLTtape technology produces high durability in heavy-duty commercial applications. To ensure customer data integrity, 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 DLTtape drive.



## Specifications

### Performance Specifications

Sustained Transfer Rate (MB/sec)	
Native	1.5
Compressed	3.0 <sup>1</sup>
Burst Transfer Rate (MB/sec)	
Synchronous	10
Formatted Capacity	
Native	20
Compressed	40 <sup>1</sup>
Average File Access (sec)	68
Interface	SCSI-2 Fast (single-ended or differential)

### Tape Format Specifications

Recording Format	128 track serial serpentine
Recording Density	82 kbits per inch
Track Density (tpi)	256
Encoding Method	RLL 2,7
Data Compression	DLZ

### Reliability Specifications

MTBF (hours)	200,000 @100% duty cycle
Head Life (hours)	10,000
Media Durability	1,000,000 passes (15,000 uses)
Uncorrected Error Rate	1 x 10 <sup>17</sup> bits read
Undetected Error Rate	1 x 10 <sup>27</sup> bits read
Warranty (years)	3

### Physical Specifications

Dimensions—inches (mm)	
Width	5.75 (144.8)
Length	9.0 (228.6)
Height	3.25 (82.5)
Weight—pounds (kg)	5 (2.27)

### Environmental Limits

Operating	
Temperature (°C)	50 to 104 (10 to 40)
Non-Condensing Humidity (%)	20 to 80
Altitude (maximum)	8,000 ft.
Non-Operating	
Temperature (°C)	-40 to 151 (-40 to 66) excluding media
Non-Condensing Humidity (%)	10 to 95
Altitude (ft. max.)	30,000

### Power Specifications

Voltage (V)	+5, +12
Power Consumption (typical, W)	25

### Media/Format Compatibility

DLTtape III	2.6, 6, and 10 GB native capacities
DLTtape IIIXT	15 GB native capacity
DLTtape IV	20 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](http://www.quantum.com) and [www.dlftape.com](http://www.dlftape.com)

**Quantum.**  
**DLT™ 4000**

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