

## Robust, Reliable, Proven Tape Backup

RELIABILITY  
RELIABILITY  
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### Features and Benefits

- **Advances the Quantum DLTtape standard**—Read and write backward compatible with all DLTtape formats
- **Higher performance**—6 megabytes per second native transfer rate with 40 gigabytes native capacity
- **Reliability**—Recording head life of 50,000 hours, media durability of 1,000,000 media passes, and MTBF of 250,000 hours at 100% duty cycle
- **Performance Optimizer**—Uses variable speed recording to accommodate variations in host throughput to maximize performance

### The Industry Standard

The Quantum DLT 8000 tape drive system advances the standard in tape backup with improvements to capacity, performance, and cost of ownership while maintaining compatibility with a worldwide installed base of more than one million DLTtape™ drives. The Quantum DLT 8000 tape drive will decrease your data backup time, give you the flexibility to scale to a wide range of backup applications, and protect your investment in previous generations of DLTtape technology.

Through a number of design and technological innovations, the Quantum DLT 8000 tape drive delivers higher performance, greater capacity, increased reliability, and more functionality at a better price. For example, the Quantum DLT 8000 provides a native storage capacity of 40 gigabytes (GB) and a native transfer rate of 6 megabytes per second (MB/sec). This represents a 15 percent higher capacity and 20 percent

faster throughput than the Quantum DLT 7000 tape drive. To ensure superior accuracy, the Quantum DLT 8000 recording head boasts an average life of 50,000 hours. In fact, the Quantum DLT 8000 tape drive is rated at 250,000 hours MTBF at 100 percent duty cycle, which is 25 percent greater than previous DLTtape products. The Quantum DLTtape system is also economical and incredibly reliable, with a shelf life of 30 years and a working life of one million passes. By offering a high level of performance at an exceptional price, the Quantum DLT 8000 makes tape backup practical and affordable for a wide range of applications, including mid-range computers, network servers, high-end workstations, and mainframe environments running UNIX, NetWare, Microsoft Windows NT, LINUX, or proprietary operating systems.

When you're looking for quality, performance, reliability, and value in tape backup, look to Quantum first.



## Specifications

### Performance Specifications

Sustained Transfer Rate (MB/sec)	
Native	6
Compressed (up to)	12 <sup>1</sup>
Burst Transfer Rate (MB/sec)	
Synchronous	20
Asynchronous	12
Formatted Capacity (GB)	
Native	40
Compressed	80 <sup>1</sup>
Average File Access (sec)	60
Interface	SCSI-2 Fast/Wide (SE/LVD or HVD)

### Tape Format Specifications

Recording Format	208 track serial serpentine
Recording Density	98 kbits per inch
Track Density (tpi)	416
Encoding Method	RLL 2,7
Data Compression	DLZ

### Reliability Specifications

MTBF (hours)	250,000 at 100% duty cycle
Head Life (hours)	50,000
Media Durability	1,000,000 passes (15,000 uses)
Uncorrected Error Rate	1 x 10 <sup>12</sup> bits read
Undetected Error Rate	1 x 10 <sup>27</sup> bits read
Warranty (years)	3

### Physical Specifications

Dimensions—inches (mm)	Table Top	Rack Mount <sup>2</sup>	
	Width	6.88 (174.8)	5.7 (144.8)
	Length	12.8 (325.1)	9.0 (228.6)
	Height	6.48 (164.6)	3.25 (82.5)
Weight—pounds (kg)	14 (6.35)	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 (V)	+5, +12
Power Consumption (W)	28

### Media/Format Compatibility

DLTape III	10 GB native capacity
DLTape IIIXT	15 GB native capacity
DLTape IV	20, 35, and 40 GB native capacities
Read/write compatible with all previous DLTape formats	
DLTape 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 DLTape Media Cartridges

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

<sup>1</sup> Actual transfer rate and capacity will vary depending on data. <sup>2</sup> Excluding bezel.



**Quantum**  
**DLT 8000**

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)

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