



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

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, 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, 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.

Key Features and Benefits

- High performance—1.5 MB per second native transfer rate
- High capacity—20 GB native capacity
- High reliability and durability
- Backward compatibility to previous DLTtape formats

SPECIFICATIONS

Quantum

DLT 4000

Performance Specifications

| | |
|----------------------------------|--|
| Sustained Transfer Rate (MB/sec) | |
| Native | 1.5 |
| Compressed | 3.0* |
| Burst Transfer Rate (MB/sec) | |
| Synchronous | 10 |
| Formatted Capacity | |
| Native | 20 |
| Compressed | 40* |
| Average File Access (sec) | 68 |
| Interface | SCSI-2 Fast (Single-Ended or Differential) |

DLTape 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 | 200,000 hours |
| Head Life | 10,000 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) | |
| Height | 3.25 (82.5) |
| Width | 5.75 (144.8) |
| Length | 9.0 (228.6) |
| Weight—pounds (kg) | 5 (2.27) |

Environmental Limits

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

Power Specifications

| | |
|-----------------------------|-----------|
| Voltage | +5V, +12V |
| Power Consumption (typical) | 25 watts |

Media/Format Compatibility

| | |
|---|-------------------------------------|
| DLTtape III | 2.6, 6, and 10 GB native capacities |
| DLTtape IIIXT | 15 GB native capacity |
| DLTtape IV | 20 GB native capacity |
| DLT Cleaning Tape | 20 uses |
| Read/Write Compatible With All Previous DLT Formats | |

DLTtape Media 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.

Quantum DLTtape Media Cartridges

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



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.dlttape.com

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