

BENCHMARK DLT1 TAPE DRIVE

Using the Benchmark DLT1 tape drive, small- to medium-sized storage servers or workstations can be backed up on one single tape cartridge.



DLT FOR THE REST OF US

Benchmark Tape Systems now delivers a backup and archive tape subsystem that offers unprecedented DLT value.

Along with leading edge price/performance metrics, Benchmark's DLT1 boasts backward read capability with the popular DLT 4000 format. In addition, virtually all of the popular backup software packages are supported by default because the command set is already established by existing DLT products.

BACK UP YOUR SERVER OR WORKSTATION USING JUST ONE CARTRIDGE

Most IT professionals are grappling with the explosive growth of their corporate network data storage requirements with technology that is poorly matched to the job. There is an ever-increasing demand for IT professionals to efficiently manage and procure systems for the enterprise-wide network, including workgroups, intranets, and extranets. Benchmark Tape Systems provides a reliable tape solution that safely manages and preserves valuable corporate data. The first of Benchmark's drive family, the DLT1, offers an 80GB compressed capacity and 6MB/second compressed transfer rate, so small- to medium-sized storage servers or workstations can be backed up on one single tape cartridge. The Benchmark DLT1 drive is available as an internally configured unit and as a self-standing enclosed unit.

For those environments that require an automated solution, Benchmark offers the DLT7, a 7-cartridge autoloader. To increase your reliability even more, Benchmark's DLTape™IV media is designed for use in Benchmark (and all other) DLT drives and libraries. The Benchmark Cleaning Tape is specially formulated for effective cleaning of Benchmark DLT1 tape drives. It reduces particle buildup, enhancing the performance of the Benchmark DLT1 and restoring its thin-film MR recording head to peak performance.

RELIABILITY AND PERFORMANCE

The reliability of Benchmark's DLT1 is more than designed in; it has already been established by its accomplished lineage. As a natural extension of DLT, the standard of reliability in the industry, we built upon that solid foundation to provide a new benchmark of reliability. The 80GB compressed single

cartridge capacity is ideally suited for networked servers in small- to medium-size businesses and individual high performance workstations. Designed with automation in mind, the Benchmark DLT1 drive provides soft unload capability and is perfectly matched with the Benchmark DLT7 autoloader as an ideal automation product. Its backup speed of over 20GB per hour fits within most IT professionals' available backup windows. Add Benchmark DLTape™IV media and you will own a steadfast DLT backup and restore solution.

SOFTWARE AND PLATFORM CERTIFICATION

Please check our web site (www.BenchmarkTape.com) for the latest Benchmark Tape Systems Compatibility Guide for a complete list of application software packages and hardware platforms compatible with the Benchmark DLT1 and Benchmark DLT7.

We welcome you to visit the site regularly for the latest information on all Benchmark Tape Systems products.

BENCHMARK
T A P E S Y S T E M S



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BENCHMARK DLT1 TAPE DRIVE

FUNCTIONAL / TECHNICAL SPECIFICATIONS

Performance Specifications

Sustained Transfer Rate

Native	3.0 MB/sec
Compressed	6.0 MB/sec ¹

Burst Transfer Rate

Synchronous	20 MB/sec
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Capacity

Native	40 GB
Compressed	80 GB ¹

Average File Access 68 seconds

Interface

Wide Ultra SCSI
Low Voltage Differential (LVD)

Benchmark DLT1 Format Specifications

Recording Format 168 tracks (84 logical track pairs)

Recording Density 123Kbpi

Track Density 336 tpi

Encoding Method RLL 1,7

Data Compression DLZ

Reliability Specifications

MTBF	>200,000 hours
Head Life	>30,000 hours
Uncorrected Error Rate	1 x 10 ¹⁷ bits read
Undetected Error Rate	1 x 10 ²⁷ bits read
Read While Write	

Physical Specifications

Internal Dimensions – inches (mm)

Height	3.40 (86.36)
Width	5.75 (144.8)
Length	7.99 (202.95)

Weight – pounds (kg) 2.9 (1.32)

Enclosure Dimensions – inches (mm)

Height	3.94 (100.08)
Width	8.38 (212.85)
Length	10.44 (277.88)

Weight – pounds (kg) 8.7 (3.94)

Environmental Limits

Operating Temperature F (C) 50 to 104 (10 to 40)

Non-condensing Humidity 20% to 80%

Altitude (maximum) 30,000

Non-Operating

Temperature F (C) -40 to 151 (-40 to 66)

Non-condensing Humidity 10% to 95%

Altitude (maximum) 30,000

Power Specifications

Voltage (DC) +5v, +12v

Power Consumption (typical) 15 watts

Media/ Format Compatibility

Benchmark DLTape IV 40 GB native capacity

Benchmark DLT Cleaning Tape 20 uses

Read Compatible with the DLT 4000 format

Media Life

Archive Storage 30 years with less than 5% loss in demagnetization (@20° C and 40% non-condensing humidity)

Durability 1,000,000 head passes

¹ – Actual capacity & transfer rate is highly dependent on data type



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