

## BENCHMARK DLT1 TAPE DRIVE

*The Benchmark DLT1 tape drive provides the performance of DLT technology at a price that has previously been associated with lower-end DDS drives.*



### THE POWER OF DLT AT THE PRICE OF DDS

Benchmark Tape Systems now delivers a backup and archive tape subsystem that has enterprise class performance and reliability at a price commonly expected of low-end server products. The Benchmark DLT1 capitalizes on the company's dynamic and highly experienced founding team, plus a technology transfer from Quantum Corporation to deliver this DLT technology to the network server and workstation markets.

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.

### ENTERPRISE RELIABILITY AND PERFORMANCE AT DESKTOP PRICING

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 a 40GB native capacity (80GB compressed) and a 3MB/second native transfer rate (6MB/second compressed), providing enterprise reliability and performance at low-end server pricing. 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 for use in Benchmark (and all other) DLT drives and libraries.

### 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 NT servers in small to medium size businesses and individual RISC-based 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 — at a DDS price!

### SOFTWARE AND PLATFORM CERTIFICATION

Please check our web site ([www.BenchmarkTape.com](http://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.



[www.avax.com](http://www.avax.com)

## BENCHMARK DLT1 TAPE DRIVE

### FUNCTIONAL / TECHNICAL SPECIFICATIONS

#### Performance Specifications

|                         |                                |
|-------------------------|--------------------------------|
| Sustained Transfer Rate |                                |
| Native                  | 3.0 MB/sec                     |
| Compressed              | 6.0 MB/sec <sup>1</sup>        |
| Burst Transfer Rate     |                                |
| Synchronous             | 20 MB/sec                      |
| Capacity                |                                |
| Native                  | 40 GB                          |
| Compressed              | 80 GB <sup>1</sup>             |
| 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 <sup>17</sup> bits read |
| Undetected Error Rate  | 1 x 10 <sup>27</sup> bits read |

### 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 DLTtape 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 <sup>o</sup> C and 40% non-condensing humidity) |
| Durability      | 1,000,000 head passes   |

<sup>1</sup> – Actual capacity & transfer rate is highly dependent on data type



**BENCHMARK**  
TAPE SYSTEMS



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