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Digital Data Storage-Data Compression Drive: Specifications 5/93

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TOPIC -----

This article gives the technical specifications for the Apple DAT (Digital Audio Tape) Drive that is included with the Apple Workgroup Server 95.

DISCUSSION -----

Interface

- 50 Pin SCSI Connector
- Operates in three orientations.
- Set of Option Switches on the underside of the device (Compression)
- SCSI ID jumper next to the SCSI connector.

Dimensional Characteristics

- Length of magnetic tape - Between 3.0m and 92.0m
- Length of leader and trailer tapes - 60mm +/- 5mm
- Tape Width - 3.81mm = 0.00mm - 0.02 mm
- Total Thickness - 9.0 micrometer +/- 0.8 micrometer

Performance and Functional Specifications

- Data Capacity of a 90 meter cassette is up to 8 GB
- Minimum Tape length supported is 3 meters.
- Data Transfer rate - 366 to 732 Kb/sec.
- Burst Data Transfer from SCSI Bus - Max. Burst of 1.580MB/sec.
(asynchronous)
- Load Time - 25 seconds
- Error Rates - Uncorrectable bit error rate is better than 1 in 10¹⁵.

Environmental Limits

- Cassettes - Only use cassettes at temperatures between 5 degrees C and 40 degrees C. Cassettes may be stored at temperatures down to -40 degrees C.

- Operating
 - Temperature - 5 degrees C to 40 degrees C
 - Relative humidity - 20% to 80% (26 degrees C max Wet Bulb)
(NOTE: Wet Bulb means the amount of degrees it can withstand without condensation.)
- Non-Operating
 - Temperature - 0 degrees C to 55 degrees C
 - Relative humidity (RH) - 15% to 95% RH (26 degrees C max Wet Bulb)
- Vibration
 - Operating - .3 g Peak, 5-500 Hz
 - Non-Operating - .75 g Peak, 5-500 Hz
- Shock
 - Operating - 5 g peak for 3 ms
 - Operating No Performance Change - 2 g peak for 11 ms
 - Non-Operating - 90 g peak for 3 ms
 - Non-Operating No Damage - 30 g peak for 26 ms
- Altitude
 - Operating - 0 km to 4.6 km (0 to 15,000 ft)
 - Non-Operating - 0 km to 15.2 km (0 to 50,000 ft)

Article Change History

23 August 1993 - edited to mention the Apple Workgroup Server 95
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