

M2TM Tape Drive



High-capacity, high-performance tape drive

Mission-critical reliability



April 4, 2000
Mammoth-2
Exabyte Corp.

- 60 GB capacity (150 GB compressed*)
- 12 MB/second transfer rate (30 MB compressed*)
- Native Fibre Channel or SCSI interfaces
- Embedded serverless backup with native Fibre Channel interface
- Automated drive cleaning

FEATURES	ADVANTAGES	BENEFITS
<i>Superior speed and capacity</i>	<i>Backs up 43 GB of data onto a single tape in less than an hour</i>	<i>Faster, more reliable data backup</i>
<i>Self-cleaning using SmartClean™ media</i>	<i>Eliminates manual cleaning</i>	<i>Reduces drive maintenance</i>
<i>Industry-leading technology</i>	<i>Options include native Fibre Channel connectivity and serverless backup</i>	<i>Reduced cost of ownership, increased reliability, SAN-ready</i>
<i>Backward-read capability</i>	<i>Mammoth and Mammoth-LT user can easily migrate to M2</i>	<i>Cost effective migration path</i>

The fastest tape drive in its class, M2 is invaluable for companies that need to store large amounts of data and retrieve them quickly and easily. M2 is a self-cleaning tape drive, featuring Exabyte's exclusive SmartClean technology which virtually eliminates the need for manual cleaning. The M2 tape drive is the best enterprise-level, high-performance tape drive made for the midrange market. Ideal for Unix, Linux and NT environments, M2 delivers a 12 MB/second native transfer rate and a native capacity of 60 GB. Integrated into Exabyte's robust and reliable family of high-performance tape libraries and autoloaders, M2 satisfies the requirements of the network server market. With capacities of 420 GB to 30 TB, Exabyte's MammothTape™ technology libraries deliver extremely high performance.

M2 with Native Fibre Channel

M2 is the first tape drive in its class to offer native Fibre Channel connectivity. Native Fibre Channel reduces total cost of ownership by eliminating Fibre Channel-to-SCSI routers, a critical point of failure, and reducing maintenance and management costs.

M2 can also provide serverless backup with the extended copy command built into its firmware. This eliminates server cycles and enables continuous, 24/7 backup, increasing the speed of backup and recovery.

*Compressed specifications assume a 2.5:1 compression ratio. Compression, capacity and throughput will vary depending upon type of data and system configuration. All specifications are subject to change without notice.

The Exabyte internal M2 LVD SCSI kitted tape drive includes an internal ribbon cable, 225m SmartClean AME media, and an installation and operation guide. The external M2 kitted drive includes a low voltage differential (LVD) SCSI cable, 120v, AC power cord, 225m SmartClean AME media, terminator, and an installation and operation guide.

M2 Configurations	Exabyte Part #
M2, Ultra2 LVD, Internal	270015-1096
M2 Ultra2 LVD, internal kitted	270004-1097
M2 Ultra2 LVD, external kitted	270004-1099

For a complete list of part numbers, including Fibre Channel part numbers, ask your Exabyte reseller or visit www.exabyte.com



Media Compatibility

For optimal drive performance and reliability, Exabyte recommends only AME SmartClean™ media for M2 tape drives and tape libraries. M2 can use other AME media but will require regular cleaning with an Exabyte Mammoth cleaning cartridge.

Tape Drive Integration

The M2 tape drive is available as a consumer-ready packaged solution or integrated into the X200, X200 with Fibre Channel, X80, X80 with Fibre Channel, 430M and 215M tape libraries and into the EZ17 autoloader.

Exabyte M2

Technical Specifications

Capacity

Native	Compressed*
60 GB	150 GB

Performance

Transfer rate, sustained:
 12 MB per second, native (43.2 GB per hour)
 30 MB per second, compressed* (108 GB per hour)
 Burst transfer rate:
 80 MB per second (LVD)
 100 MB per second (Fibre Channel)
 Search rate, nominal: (20 GB)
 60 second
 Cartridge load to ready:
 < 17 seconds

Interface

Low-voltage differential (LVD), Native Fibre Channel

Buffer Size

32 MB

Data Integrity

BER < 1 in 10¹⁷

Reliability

MTBF > 300,000 hours

Recording Method

Advanced 8mm helical scan

Read and Write Formats

Read: Mammoth-LT, Mammoth and M2
 Read and write: M2

Media

Advanced Metal Evaporated (AME) media with SmartClean™ technology

Drive Cleaner

Exabyte M2 is self-cleaning when used with Exabyte AME media with SmartClean technology.

Head Life

50,000 hours

Environmental

Operating temperature:
 5°C to +45°C (41°F to 113°F)
 Nonoperating temperature:
 -20°C to 60°C (4°F to 140°F)
 Relative humidity, noncondensing:
 20% to 80%

Power

+5 VDC, +12 VDC, 16 watts typical

Dimensions (HxWxD)

1.63 x 5.75 x 8.0 in.
 4.14 x 14.61 x 20.32 cm

Weight

3 lbs./1.36 kg.

Agency Certifications

UL, CSA, IEC (bare drive)
 UL, CSA, IEC, FCC, ICES, CISPR, VDE, TUV (tabletop enclosure)

Warranty

Three year advance exchange

Software Compatibility

For the most recent software compatibility information, visit the Products section on the Exabyte website.

www.exabyte.com

Contact an Exabyte sales representative at 1-800-EXABYTE for availability of M2 products or products using MammothTape technology.



Exabyte Corporation
 1685 38th Street
 Boulder, CO 80301 USA
 (303) 442-4333
www.exabyte.com
sales@exabyte.com

End-User/Product Info: 1-800-EXABYTE
 Reseller Sales Support: 1-800-774-7172
 Technical Support: 1-800-445-7736
 Worldwide: (303) 417-7792
 Government Sales: 1-800-292-4688

Asia Pacific: (65) 271 6331
 Australia: (612) 9436 4977
 Japan: (813) 3237 2832
www.exabyte-asiapacific.com
asiaexb@exabyte.com

Latin America: (303) 417-5700
 Argentina: 001-800-200-1111
 at the tone dial 1-800-982-6369
 Brazil: 000 811 728 0552
 Chile: 1230 020 2007
 Mexico: 95 800 887 6745

Europe:
 France: +33 (0)1 69353340
 Germany: +49 (0)6103 90960
 Netherlands: +31 (0)30 2548800
 UK: +44 (0)1608 646888
www.exabyte-europe.com
europe-info@exabyte.com

*Assumes 2.5:1 compression ratio. Compression capacity and throughput will vary dependent upon type of data and system configuration. All specifications are subject to change without notice.

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