

VXA-1 Tape Drive



VXA – the DDS Replacement

VXA revolutionizes the tape storage industry using technology similar to that already proven in the Internet, telecommunications and rewriteable CD markets. VXA-1 sets a new standard for data restore and interchange while offering extraordinary tape drive performance.

- **33 GB capacity (66 GB compressed*)**

- **3 MB per second transfer rate (6 MB/sec compressed*)**

- **Designed for 100% reliable restore**

- **Optimal backup and restore job times**

- **Assured media interchange**

- **A new standard in data storage value—MSRP under \$700**

FEATURES

- Backup 33 GB native server or workstation data in just over three hours
- Available in SCSI or FireWire or IDE connectivity
- 3 media length choices allows the user to optimize media investment
- Unique VXA packet recording technology designed for 100% reliable restore operations

Discrete Packet Format™(DPF)

The enabling foundation of VXA® technology is its revolutionary Discrete Packet Format. DPF enables data to be written and read in packet form, providing users a data restore capability unprecedented in the storage industry. The packets are uniquely addressed and can be read in any sequence.

Variable Speed Operation™(VSO)

Conventional streaming drives must operate at a constant speed, and when the flow of data to or from the drive is interrupted, the tape must be stopped and repositioned. This “backhitching” significantly accelerates media and

head wear, which in turn adversely impacts data reliability and the life of the drive mechanism. In contrast, the VXA-1 drive adjusts tape motion to match the host transfer rate, eliminating backhitching. This capability significantly enhances media and drive reliability while optimizing backup and restore job times.

OverScan Operation™(OSO)

OverScan Operation is a technique for reading data packets independent of track shape or geometry. By reading packets with multiple scans, VXA virtually guarantees data restore. This also ensures media interchange – data on any VXA tape can be read by any VXA drive.

*Compressed specifications assume a 2:1 compression ratio. Compression, capacity and throughput will vary depending upon type of data and system configuration. All specifications are subject to change without notice.

**MSRP applies to internal, bare unit only. Other configurations are slightly higher.

The Exabyte internal VXA-1, LVD SCSI tape drive includes a quick start manual. The internal VXA-1, LVD SCSI, kitted tape drive includes a quick start manual, 1 V17 media cartridge and 1 VXA cleaning cartridge. The external VXA-1, LVD SCSI, kitted tape drive includes a US and international power cord, SCSI terminator, quick start manual, 1 V17 media cartridge and 1 VXA cleaning cartridge.

For optimal drive performance and reliability, Exabyte provides VXA media and cleaning cartridges specifically designed for use with VXA-1 tape drives.

VXA-1 Configurations	Exabyte Part #
VXA-1, LVD, internal, kitted, white	114.00201
VXA-1, LVD, external, kitted, white	115.00201
VXA-1, LVD, external, kitted, black	115.00202
VXA-1, FireWire, external, kitted, black, with Dantz Retrospect [®] software	115.01108

Media Cartridge	Exabyte Part #
V17	111.00103
V10	111.00106
V6	111.00100
VXA Cleaning Cartridge	111.00109



VXA-1 Tape Drive

Technical Specifications

Capacity

V17 cartridge	66 GB* (33 GB native)
V10 cartridge	40 GB* (20 GB native)
V6 cartridge	24 GB* (12 GB native)

Performance

Transfer rate, sustained:
 3 MB per second, native (10.8 GB per hour)
 6 MB per second, compressed* (21.6 GB per hour)

Burst transfer rate: 10 MB per second

Search rate (maximum): 256 MB/sec* read/write speed (128 MB per second native)

Cartridge load to ready: 20 seconds

Interface

SCSI, FireWire, IDE

Buffer Size

4 Mbits

Reliability

MTBF 300,000 hours
 MTTR 30 minutes
 Error Correction: 4-layer Reed Solomon ECC
 Hard Error Rate: <1 in 1 X 10¹⁷ bits

Recording Method

Packetized data, 64 bytes of user data plus ECC

Read and Write Formats

Read: VXA-1
 Read and Write: VXA-1

Media

Advanced Metal Evaporated (AME) media

Drive Cleaner

Exabyte VXA cleaning cartridge is required

Environmental

Operating temperature:
 10°C to +40°C (50°F to 104°F)
 Nonoperating temperature:
 -40°C to 60°C (-40°F to 140°F)
 Relative humidity, noncondensing:
 20% to 80%

Power

Internal	Requirement: +5 VDC, +12 VDC Consumption: 8 watts typical
External	Requirement: universal auto-switching, 96 to 240 VAC Consumption: 12 watts typical

Dimensions (HxWxD)

Internal:	1.63 in. x 5.75 in. x 8.0 in. (41mm x 146mm x 203mm)
External:	3.38 in. x 8.93 in. x 11.25 in. (86mm x 227mm x 285mm)
Color	Internal: white or black External: white, black, translucent (G4 design)

Shipping Dimensions (HxWxD)

Internal:	177.8mm x 279.4mm x 355.6mm (7 in. x 11 in. x 14 in.)
External:	177.8mm x 381mm x 533.4mm (7 in. x 15 in. x 21 in.)

Weight

Internal:	2.2 lbs. (1kg)
External:	6.6 lbs. (3kg)

Shipping Weight

Internal:	1.81437 kg (4 lbs.)
External:	4.53592 kg (10 lbs)

Agency Certifications

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

Warranty

3 year

Software Compatibility

The VXA-1 is compatible with all major backup applications and operating systems. For up-to-date compatibility information, please visit our website at www.exabyte.com

Contact an Exabyte sales representative at 1-800-EXABYTE for availability of VXA-1 products or products using VXA tape technology

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*Assumes a 2:1 compression ratio. Compression, capacity and throughput will vary dependent upon type of data and system configuration.
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