

## Quantum DLT-V4 Tape Drive



### FEATURES AND BENEFITS

- A New Level of Performance
  - 320 GB of compressed\* capacity and a 20 MB/s compressed\* transfer rate
  - Backup today's higher capacity disk drives on a single tape cartridge
- Superior Value
  - The DLT-V4 offers the most competitive \$/GB media cost
  - Three generations of back-read support for the DLT VS160, DLT VS80, and DLT1
- Enterprise-class Features for the SMB
  - Superior Manageability with DLTSage™
  - WORM functionality with DLTSage WORM
- Market Proven DLT® Reliability
  - Fourth generation of proven DLT-V technology and is compatible with an installed base of a half a million drives
  - Seven generation roadmap that takes capacity per cartridge to 2-3 TB

Part Number	Product Description
BHBAM-BR	internal bare, SATA, 5.25" black/beige, 320GB*
BHBAM-EY	internal kit, SATA, 5.25" black/beige, 320GB*
BHBAX-BR	internal bare, Ultra 160 SCSI, 5.25" black/beige, 320GB*
BHBAX-EY	internal kit, Ultra 160 SCSI, 5.25" black/beige, 320GB*
BHBBX-EY	tabletop kit, Ultra 160 SCSI, 5.25" black, 320GB*
BHBBX-YF	tabletop kit, Ultra 160 SCSI, 5.25" beige, 320GB*
BHCMX-EY	single tape drive, 1U rackmount, Ultra 160 SCSI, black, 320GB*
BHCNX-EY	dual tape drives, 1U rackmount, Ultra 160 SCSI, black, 640GB*

\*Assumes 2:1 Compression

### Bringing Enterprise-Class Features to SMB Backup!

Small-to-medium sized businesses experience many of the same issues as their colossal counterparts when it comes to backup – from matching the continued increases in server capacities to manageability to compliance -- backup can be just as complex in a small-to-mid-sized environment as it is in larger companies. And the information being protected is equally critical. SMBs have been hard-pressed to find backup devices that satisfy the requirements to meet today's data protection needs. Until now. The DLT-V4 drive from Quantum brings many features before only found in backup devices costing two to three times as much.

The NEW DLT-V4 drive delivers many enterprise-class features at an amazingly affordable price:

- DLT Sage - offers advanced manageability and diagnostics, WORM capabilities on standard media and security features not typically available in other tape drives in its class.
- Compliance - DLTSage WORM offers WORM capability on standard media, eliminating the need for a separate media pool.
- Performance – with a compressed capacity of 320 GB and compressed transfer rates of 20 MB/s, the DLT-V4 drive has 4 times the capacity and can backup 3 times faster than the DAT 72 drive!
- Unprecedented value - the DLT-V4 brings a level of value per GB that is almost half that of LTO-2HH solutions.

And, unlike the next generation of DAT, the DLT-V4 drive does all this using the same media (DLTape® VS1) from its predecessor, the DLT VS160 drive. So, not only do you get enhanced performance, improved management and industry-acknowledged WORM archival functionality, you get it all without having to change tape cartridge formats!

The DLT-V4 drive also delivers the most competitive media cost-per-GB in its class, the proven reliability of DLT® Technology, a well-planned roadmap to ensure future products and is available in Ultra 160 SCSI or SATA interface.

Quantum "Backup Ready" certified solutions allow you to go from box-to-backup in minutes with the exceedingly reliable Quantum DLT-V4 tape drive, world-class Backup Exec™ QuickStart software and durable Quantum media. Choose the Quantum DLT-V4 tape drive that is right for your environment: a server-installable internal, convenient tabletop or space-efficient rackmount configuration.



DLTSage is a suite of intelligent data protection tools that enables you to more effectively manage and protect your storage environment. DLTSage also provides enhanced security features that ensure the confidentiality and integrity of your stored data with DLTSage Tape Security and DLTSage WORM.

\*\* The DLTSage WORM feature is currently available in DLT-S4, SDLT600 and DLT-V4 tape drives and planned to be offered in all future DLT products.

\* Based on 2:1 compression for both capacity and transfer rate



## Quantum DLT-V4 Tape Drive

### About Quantum

Quantum, a global leader in storage, delivers highly reliable backup, recovery and archive solutions that meet demanding requirements for data integrity and availability with superior price/performance and comprehensive service and support. Quantum is the world's largest supplier of tape drives, and its DLT®, LTO Ultrium, DAT/DDS and Travan-based technologies set the standards for tape backup, recovery and archive of business-critical data for the small business to mid-range enterprise. Quantum offers the broadest portfolio of tape autoloaders and libraries and is one of the pioneers in the disk-based backup market, providing solutions that emulate a tape library but are optimized for backup and recovery.

### QUANTUM DLT-V4 SPECIFICATIONS

#### Performance

Sustained Transfer Rate (MB/sec)	
Native	10MB/sec, 36GB/Hr
Compressed*	20MB/sec, 72GB/Hr
Burst Transfer Rate (MB/sec)	
Ultra 160 SCSI	160
SATA 1.0	150
Formatted Capacity (GB)	
Native	160
Compressed*	320
Average File Access Time (sec)	
Interface	84
	SATA 1.0 and Ultra 160 SCSI

#### Compatibility

Operating Systems	Please visit <a href="http://www.quantum.com/compatibility">www.quantum.com/compatibility</a>
Backup Software	check your specific operating system and backup software compatibility.

#### Reliability

MTBF (hours)	250,000 hours at 100% duty cycle
Uncorrected Error Rate	1 x 10 <sup>17</sup> bits read
Undetected Error Rate	1 x 10 <sup>17</sup> bits read

#### Physical Specifications

Form Factor	Internal	Tabletop	Rackmount
Width (in/mm)	5.80/147.5	8.35/212.13	16.7/425
Height (in/mm)	1.65/1.61	2.61/66.24	1.7/43.7
Length (in/mm)	8.87/225.4	10.73/27.49	20/508
Weight (lbs/kg)	3.0/1.36	7.68/3.48	15.5/7

#### Environmental Limits

Operating	
Temperature °F (°C)	50° to 104° (10° to 40°)
Non-Condensing Humidity (%)	20 to 80
Altitude (ft. maximum)	30,000 (9,144 m)

#### Power

Voltage (V)	+5, +12
Power Consumption (W)	<14 watts (average read/write operation)

#### Tape Format Specifications

Recording Format	352 tracks
Recording Density	219 k bits/inch
Encoding Method	PRML
Data Compression	DLZ
DLTSage™	Full
DLTSage xTalk	Cross-platform interface, Windows, HP-UX, Solaris, Unix

#### Tape/Format Compatibility

DLTape VS1 (read/write)	160 GB native capacity
DLTape VS1 (Read Only: Media written by VS160)	80 GB native capacity
DLTape IV (read only, VS80 and DLT1)	40 GB native capacity

#### Tape Specifications

Cartridge Dimensions	4.16in x 4.15in x 1in (105.6mm x 105.3mm x 25.4mm)
Archive Storage	30 years
Durability	up to 200 uses

#### Warranty

Tape	Limited lifetime
Tape Drive	3 year limited with Rapid Exchange

\*Assumes 2:1 compression

# Quantum

For more information,  
visit [quantum.com](http://quantum.com)

**United States of America**  
Quantum Corporation  
141 Innovation Drive  
Irvine, CA 92612  
U.S.A.  
phone 949.856.7800  
fax 949.856.7799

**European Headquarters**  
Quantum Corporation  
3 Bracknell Beeches  
Old Bracknell Lane West  
Bracknell  
Berkshire RG12 7BW  
United Kingdom  
phone +44 1344 353500  
fax +44 1344 353510

**Asia Pacific**  
Quantum Storage Singapore Pte Ltd  
9 Temasek Blvd. #08-03  
Suntec Tower Two  
Singapore 038989  
phone +65 6432 2812  
fax +65 6432 2790