



Disk Library for  
mainframe (DLm)  
model 8500

# DISK LIBRARY FOR MAINFRAME SPEC SHEET

Dell EMC® Disk Library for mainframe best addresses the toughest challenges facing tape storage in the mainframe data center with features the leading competitor doesn't offer. Features like data deduplication and high availability in a single frame. DLm also offers the broadest options for FICON & cloud connectivity, delivering industry-leading performance and availability to tape operations, while working seamlessly with current host software and tape applications. Disk Library for mainframe is a single model, DLm8500 which scales from a single frame of virtual tape engines and storage for small datacenters to multiple frames containing up to 8 VTEs and petabytes of storage for large enterprises. DLm is the only Virtual Tape storage system in the Market to offer EMC Universal Data Consistency™ for applications like DB2 database backup that demand tape application data as well as log data is synchronized with DASD at all times.

Since release 4.5, in addition to cloud connectivity, DLm began incorporating GDDR (Geographically Dispersed Sysplex) technology for automated tape failover and disaster recovery testing, Data Domain High Availability (HA) and KMIP external key management compliance.

The DLm8500 can be configured with Data Domain DD6300, DD6800, DD9300 or DD9800 DD9500 as well VMAX and legacy VNX<sup>1</sup> storage for datacenters that may be repurposing VNX and upgrading and existing DLm configuration that used VNX. DLm provides massive scalability and 16Gb FICON connectivity using 1 to 8 Virtual tape engines to support up to 32 FICON channels.

Review the [Dell EMC Disk Library for Mainframe Data Sheet](#) for a more detailed description of these new features.

Disk Library for mainframe combines mainframe tape emulation with RAID 6 protected disk storage, hot-standby disks, deduplication, and hardware compression. All are essential capabilities to provide your mainframe tape environment with a high-capacity and performance-oriented solution in the smallest possible footprint.

Disk Library for mainframe connects directly to IBM mainframes via Virtual Tape Engines (VTE) using FICON channels, and it appears to the mainframe operating system as standard IBM tape drives. All tape commands are supported by the Disk Library for mainframe and respond as real tape drives, so existing work processes and applications can run without any modifications. With Disk Library for mainframe, the retrieval time of information is reduced from minutes via tape to just seconds via disk.

## Specifications

### DISK LIBRARY FOR MAINFRAME CONNECTIVITY

Type: Multi-mode or single-mode 16Gb FICON

Number of VTEs (min/max): 1/6 (up to 8 by RPQ)

Number of FICON ports (min/max): 432

## DRIVE INTERFACE

Disk Drives: 3TB or 4TB orderable for Data Domain® storage

Form Factor: 3.5"

Height: 1.0"

Rotational Speed: 7,200 rpm

Interface: SAS (EMC VMAX and VNX) or SATA II (EMC Data Domain®)

Data Buffer: 32 MB

Power Watts (maximum): 12.15

## SOFTWARE

EMC Data Domain Operating System (DDOS) 5.0 or later

EMC Virtuent™ 8 software

IBM z/OS, z/VM, z/VSE, TPF and UNISYS OS2200 operating systems supported

## DLm8500 DIMENSIONS (APPROXIMATE)\*

Model	EIA Units	Height (in/cm)	Width (in/cm)	Depth (in/cm)	Max. Weight (lb/kg)
<b>With VMAX</b>					
VTEC Bay	19"x 40U	76.66'/194.7	24.02/61	41.88/106.4	1,108/502.6
Storage Controller Bay	19"x 40U	76.66'/194.7	24.02/61	41.88/106.4	942.4/426.5
VMAX Bay	19"x 40U	76.66'/194.7	24.02/61	41.88/106.4	2,774/1258.3
Storage Bay	19"x 40U	76.66'/194.7	24.02/61	41.88/106.4	2,144/972.5
<b>With VNX or DD</b>					
VTEC Bay	19"x 40U	76.66'/194.7	24.02/61	41.88/106.4	998/453.6
VNX Bay	19"x 40U	76.66'/194.7	24.02/61	41.88/106.4	1,330/603.3
Storage Bay	19"x 40U	76.66'/194.7	24.02/61	41.88/106.4	1,400/636.4
Data Domain Bay	19"x 40U	76.66'/194.7	24.02/61	41.88/106.4	998/453.6

\*All dimensions are cabinet/enclosure size without shipping brackets or securing blankets. When trim kit is unattached, bay height is 74.90 inches (190.25 cm).

## DLm8500 POWER

With VMAX	Frequency	AC Voltage	Power Consumption Watts (maximum)	Heat Dissipation BTU/hr. (maximum)
VTEC Bay	50-60 Hz	200–240 VAC +/- 10% Single-phase	3,782	12,987
Storage Controller Bay	50-60 Hz	Same	4,580	15,600
VMAX Bay	50-60 Hz	Same	7,800	26,300

The data about weight and power is based on fully configured systems and includes VTEs, disk drives, switches and all other storage array components. The exact power and weight requirement is based on the actual Disk Library for mainframe configuration based on the number of VTEs and capacity.

## ELECTROMAGNETIC EMISSIONS AND IMMUNITY

FCC Class A EN55022 Class A; CE Mark; VCCI Class AA (for Japan); ICES-003 Class A (for Canada) Immunity; ITE AZ/NZS, CISPR22, Class A (for Australia/New Zealand) EN55024

## SAFETY

UL 60950; CSA C22.2-60950; IEC 60950, TUV, GOST, IRAM

## QUALITY STANDARD

Manufactured under an ISO 9000-registered quality system.

### DELL EMC DISK LIBRARY FOR mainframe



[Click here](#) to see features, options, and additional information

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Dell EMC believes the information in this document is accurate as of its publication date. The information is subject to change without notice.

<sup>1</sup>VNX was withdrawn from sales as of 31 January 2018.