DELLTechnologies

Disk Library for mainframe DLm2500

Disk Library for mainframe DLm8500

DISK LIBRARY FOR MAINFRAME SPEC SHEET

RELEASE 5.5

Dell Technologies 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 for tape operations, while working seamlessly with current host software and tape applications. Disk Library for mainframe consists of two models: DLm2500 and DLm8500. DLm2500 is a single, 2u virtual tape engine, ideal for small to midsize datacenters. DLm8500 scales from a single frame with a minimum of two virtual tape engines and storage for small datacenters to multiple frames containing up to six (8 by request) VTEs and petabytes of storage for very large enterprises. DLm8500 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 always synchronized with DASD.

Since release 4.5, in addition to cloud connectivity, DLm8500 began incorporating GDDR Tape (Geographically Dispersed Disaster Restart for Tape) 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 up to four PowerProtect DD models 6900, 9400 and 9900, legacy Data Domain models DD6300, DD6800, DD9300 or DD9800 DD9500 and up to two PowerMax 2500 or 8500 as well as existing PowerMax 8000 and legacy VNX[1] storage for datacenters that may be repurposing VNX and upgrading and existing DLm configuration that used VNX. DLm8500 provides massive scalability and 16Gb FICON connectivity using one to six Virtual tape Engines (8 by RPQ) to support up to 24 FICON channels (32 by RPQ).

Dlm2500 supports Isilon F800, F810, H600, H5600, H400, H500, A200, A2000 and PowerScale F200, F600 models of storage. Additionally, the model 2500 also support Data Domain Virtual Eddition (DDVE)

The DLm8500 can also be configured with up to two Isilon F800, F810, H600, H5600, H400, H500, A200, A2000 and PowerScale F200, F600, PowerProtect DD models 6900, 9400 and 9900.

Refer to the Dell Technologies Disk Library for Mainframe Data Sheet for a more detailed description of DLm2500 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, DLm2500: one

Number of FICON ports, DLm2500: 2

Maximum number of VTE's allowed DLm2500: 2

Maximum number of FICON DLm2500 ports: 4

Number of VTEs, DLm8500 (min/max): 1/6 (up to 8 by RPQ)

Number of FICON ports, DLm8500 (min/max): 4/32

DRIVE INTERFACE

Disk Drives: PowerProtect DD6900 available with 3 or 4TB drives only

PowerProtect DD9400 or DD9900 available with 8TB drives only

Data Domain DD6300 DD6800 DD9300 DD9800 are available with 3TB or 4TB drives only

NVMe Drives Supported (2.5") 1.92 TB, 3.84 TB, 7.68 TB for PowerMax® Storage

Form Factor: 3.5"

Height: 1.0"

Rotational Speed: 7,200 rpm

Interface: SAS (VNX) or SATA II (EMC Data Domain®), FC (PowerMax)

Data Buffer: 32 MB

Power Watts (maximum): 12.15

SOFTWARE

Dell Technologies Data Domain Operating System (DDOS) 6.0 or later

Dell Technologies Virtuent™ 8 software

IBM z/OS, z/VM, z/VSE, TPF (DLm8500 only) and UNISYS OS2200 operating systems supported

DLm2500 DIMENSIONS (APPROXIMATE)*

Component	EIA Units	Height (in/cm)	Width (in/cm)	Depth (in/cm)	Max. Weight (lb/kg)
DLm2500	19" x 2U	3.42./ 8.68	18.98/48.2	26.72/67.88	63.05/28.6

DLm8500 DIMENSIONS (APPROXIMATE)*

Component	EIA Units	Height	Width	Depth	Max. Weight (lb/kg)
		(in/cm)	(in/cm)	(in/cm)	
With PowerMax					
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
PowerMax Bay	19"x 40U	75'/190	24'/61	47'/119	1525/692
With VNX or DD					
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).

DLm2500 POWER

	Frequency	AC Voltage	Power Consumption Watts (maximum)	Heat Dissipation BTU/hr. (maximum)
VTE	50-60 Hz	200 – 240 VAC +/- 10% L- L nom	3,782	12,987

DLm8500 POWER

With PowerMax	Frequency	AC Voltage	Power Consumption Watts (maximum)	Heat Dissipation BTU/hr. (maximum)
VTEC Bay	50-60 Hz	200 – 240 VAC +/- 10% L- L nom	3,782	12,987
PowerMax Bay	50-60 Hz	Same	8.339	28,453

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 EMMISSIONS 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 TECHNOLOGIES DISK LIBRARY FOR mainframe

Click here to see features, options, and additional information

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

[1]VNX was withdrawn from sales as of 31 January 2018.

DELLTechnologies