DISK LIBRARY FOR MAINFRAME SPEC SHEET

RELEASE 5.1.1

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 6 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 always synchronized with DASD.

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, PowerProtect High Availability (HA) and KMIP external key management compliance. The DLm8500 can be configured with PowerProtect DD6300, DD6800, DD6900 DD9300 DD9400 DD9800 DD9500 and DD9900 as well PowerMax 8000 and legacy VNX™ 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 6 Virtual tape engines to support up to 24 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): 4/32

**DRIVE INTERFACE**

Disk Drives: 3TB or 4TB orderable for PowerProtect® storage

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 PowerProtect®), FC (PowerMax)

Data Buffer: 32 MB

Power Watts (maximum): 12.15

**SOFTWARE**

Dell EMC PowerProtect Operating System (DDOS) 6.0 or later

Dell EMC Virtuent™ 8 software

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

**DLm8500 DIMENSIONS (APPROXIMATE)**

<table>
<thead>
<tr>
<th>Model</th>
<th>EIA Units</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Max. Weight (lb/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>With PowerMax</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VTEC Bay</td>
<td>19”x40U</td>
<td>76.66'/194.7</td>
<td>24.02/61</td>
<td>41.88/106.4</td>
<td>1,108/502.6</td>
</tr>
<tr>
<td>Storage Controller Bay</td>
<td>19”x40U</td>
<td>76.66'/194.7</td>
<td>24.02/61</td>
<td>41.88/106.4</td>
<td>942.4/426.5</td>
</tr>
<tr>
<td>PowerMax Bay</td>
<td>19”x40U</td>
<td>75'/190</td>
<td>24'/61</td>
<td>47'/119</td>
<td>1525/692</td>
</tr>
<tr>
<td><strong>With VNX or DD</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VTEC Bay</td>
<td>19”x40U</td>
<td>76.66'/194.7</td>
<td>24.02/61</td>
<td>41.88/106.4</td>
<td>998/453.6</td>
</tr>
<tr>
<td>VNX Bay</td>
<td>19”x40U</td>
<td>76.66'/194.7</td>
<td>24.02/61</td>
<td>41.88/106.4</td>
<td>1,330/603.3</td>
</tr>
<tr>
<td>Storage Bay</td>
<td>19”x40U</td>
<td>76.66'/194.7</td>
<td>24.02/61</td>
<td>41.88/106.4</td>
<td>1,400/636.4</td>
</tr>
</tbody>
</table>
*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**

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

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.