

Mainframe Virtual Tape- Expanded Capacity

Mainframe Virtual Tape (MVTTM) solutions, featuring Channel Gateway X (CGXTM), allow data centers to store tape volumes on high performance, compact and reliable disk storage to reduce or eliminate physical tape and improve overall tape operations. The MVTe Series is designed to bring enterprise-class mainframe virtual tape features and benefits to large and medium sized data centers. Luminex also offers the MVTiTM Series for enterprises that require a smaller, more compact solution.



Solution Specifications

Model Comparison

	MVT 140e	MVT 160e	MVT 240e	MVT 260e
MVT Control Unit Software	CGX			
Base/Max* Capacity**	40 TB/400 TB+	60 TB / 600 TB+	40 TB/400 TB+	60 TB / 600 TB+
RAID 6 Configuration	8+2	8+2	8+2	8+2
Drive Type	3.5" SAS			
FICON Channels	2 x 8 Gb/s (also supports 4 and 2 Gb/s)		4 x 8 Gb/s (also supports 4 and 2 Gb/s)	

* Host Capacity is based on 3:1 compression for planning; however, the solution often exceeds these levels.

** Maximum host capacity is for the specified models. There are no capacity limitations for custom configured MVTe solutions.

Mainframe Connectivity

MVTe models come standard with 8 Gb/s FICON connectivity to the mainframe. Luminex 8 Gb/s FICON interfaces are backwards compatible with 4 and 2 Gb/s FICON. ESCON connectivity is also available.

Mainframe Support

Operating Systems	z/OS, z/VM, z/VSE, OS/390
Tape Device Emulation	3490 and 3590
Applications/Tape Management Systems	All major tape applications and tape management systems are supported
Virtual Tape Devices per FICON Channel	4,096+*

* limited by the standard IBM 3490 or 3590 tape HCD/IOCP gen definition; CGX imposes no limits on the number of devices

Hardware Specifications

- Dual or quad 8, 4 or 2 Gb/s FICON or ESCON mainframe connectivity
- RAID 6 data protection for virtual tape data
- Dual, mirrored hard drives for OS
- Dual power supplies
- 4U rack mount profile (base)
- Industry-standard, enterprise-quality hardware components

Solution Features

- Complete mainframe virtual tape solution
- Replication option with remote monitoring at the VOLSER level
- Push Button DR option
- Encryption and key management options
- Virtual tape cartridge sizes are configurable
- Supports up to 256K block sizes
- CloudTAPETM ready

Solution Benefits

- Improves performance for all tape operations
- Significantly improves Recovery Point Objectives (RPOs) and Recovery Time Objectives (RTOs)
- Eliminates cost of storing, handling, transporting & managing tapes
- Eliminates recurring maintenance costs of tape libraries & drives
- Significant reduction in datacenter requirements for:
 - Floor space
 - Electrical usage
 - HVAC requirements
- For HSM, reclaim CPU cycles by skipping ML1 and migrate from ML0 to ML2
- Secure, Reliable and Immediate Disaster Recovery using Remote Replication
 - Tape volumes are available both locally & at DR site
 - Recovery at DR site is immediate – no waiting for physical tape retrieval

Additional Options

- **Luminex Replication**
 Improve your disaster recovery plan with remote replication to one or more DR sites
- **RepMon™**
 Replication monitoring and auditing at the VOLSER level
- **Push Button DR**
 Disaster recovery and testing with “push button” ease
- **LTMon™**
 Integrated, centralized management from the mainframe console
- **Tape Migration Software and Services**
 Seamlessly transition physical and virtual tapes with exact copies of original VOLSER numbers and labels
- **CGSafe™**
 Encryption and key management
- **CloudTAPE™**
 Replace physical tape archives and/or third copy backups with always available, geographically dispersed and secure cloud storage
- **Multi-Site Disposition Change (MDC)**
 Dynamically assign replication sources and targets among multiple sites to implement a data center “swap” from a GUI or mainframe console
- **Synchronous Tape Matrix™ (STM)**
 True continuous availability for mainframe virtual tape

About Luminex

Luminex is a leading developer and provider of disk-based mainframe virtual tape products and technologies. Luminex solutions allow mainframe enterprise users around the world to take full advantage of the benefits of Modern Mainframe Virtual Tape to eliminate or reduce physical tape, improve RTO and RPO, lower capital and operating costs and improve data security. With Luminex solutions, enterprises can now have a single backup and recovery program for their mainframe and open systems data.

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Hardware Specifications†

Dimensions

	MVT 140e/160e (base)		MVT 240e/260e (base)		MVT 240e/260e (max)	
Form Factor	4U		6U		24U	
Height	16.99 cm	6.68 in	25.58 cm	10.06 in	101.18 cm	39.76 in
Width	48.3 cm	19 in	48.3 cm	19 in	48.3 cm	19 in
Depth	77 cm	30.3 in	77 cm	30.3 in	77 cm	30.3 in

Weight

	MVT 140e/160e (base)		MVT 240e/260e (base)		MVT 240e/260e (max)	
Weight	65 kg	144 lb	88 kg	195 lb	466 kg	1032 lb

Energy Ratings

	MVT 140e/160e (base)	MVT 240e/260e (base)	MVT 240e/260e (max)
BTU/hr	2321	2917	18442
Power Consumed/Heat Output (kW)	0.69	0.86	5.45
Power Requirement (kVA)	0.71	0.91	5.59

Ratings are based on energy usage during peak (maximum) activity. Energy usage is lower when the system is in idle or power saving modes.

Input Requirements

Rated Line Voltage	100 to 120 VAC	200 to 240 VAC
Rated Input Current	8.9 A @ 100 VAC	4.3 A @ 200 VAC
Rated Input Frequency	50 to 60 Hz	
Rated Input Power	857 W @ 100 VAC	824 W @ 200 VAC

Operating Environment

Temperature, at sea level	10° to 35°C	50° to 95°F
Temperature, maximum rate of change	10°C/hr	18°F/hr
Relative humidity	10 to 80% (non-condensing)	
Altitude @ 35°C (95°F) max, derating of 1.8°F per every 305 m (1.8°F per every 1000 ft) above sea level	up to 3050 m	up to 10,000 ft

† Hardware specifications are subject to change and dependent on final configurations.