LUMINEX™
ENLIGHTENED | STORAGE

MVTi™ Series
SOLUTION AND HARDWARE SPECIFICATIONS

Mainframe Virtual Tape (MVT™) solutions, featuring Channel Gateway X (CGX™), allow data centers to store tape volumes on fast, compact and reliable disk storage to reduce or eliminate physical tape and improve overall tape operations. The MVTi Series is designed to bring enterprise-class mainframe virtual tape features and benefits to small and medium sized data centers. Luminex also offers the MVTe™ Series for enterprises that require greater scalability for throughput, capacity and availability.

Solution Specifications

Model Comparison

	MVT 110i	MVT 120i	MVT 130i
MVT Control Unit Software	CGX		
Host Capacity*	10 TB	20 TB	30 TB
RAID Configuration	4+1+1	8+1+1	12+1+1
Drive Type	2.5" SAS		
FICON Channels	2 x 8 Gb/s (also supports 4 and 2 Gb/s)		
Max. Throughput	200 MB/s		

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

Mainframe Connectivity

MVTi 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†

Dimensions

Form Factor	Rack (2U)	
Height	8.59 cm	3.38-inch
Width	44.54 cm	17.25
Depth	74.30 cm	29.25 inches

Weight

Maximum (all hard drives, power supplies, and processors installed)	60.00 lb	27.27 kg
Minimum (one hard drive, power supplies, and processors installed)	47.18 lb	21.45 kg

Hardware Specifications

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

Solution Features

- Complete mainframe virtual tape solution in a compact form factor
- 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
- CloudTAPE™ 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 requirments 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
  - 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 to MVT 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**
  Dynamically assign replication sources and targets among multiple sites to implement a data center "swap" from a GUI or mainframe console

About Luminex

Luminex is a leading developer and provider of disk-based mainframe virtual tape products and technologies. Luminex MVT allows 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 MVT, enterprises can now have a single backup and recovery program for their mainframe and open systems data.

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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

Power Specifications

MVTi models use redundant 750W hot plug power supplies.

Input Voltage Range (V rms)	100 to 240						
Frequency Range (Nominal) (Hz)	50/60						
Nominal Input Voltage (V rms)	**100**	**120**	**200**	**208**	**220**	**230**	**240**
Maximum Rated Output Wattage Rating	750						
Nominal Input Current (A rms)	8.9	7.4	4.3	4.1	3.9	3.7	3.6
Maximum Rated Input Wattage Rating (Watts)	857	847	824	824	820	820	820
Maximum Rated VA (Volt-Amp)	894	884	859	854	854	854	854
Efficiency (%)	87.5	88.5	91	91	91.5	91.5	91.5
Power Factor	0.97						
Leakage Current (mA)	0.42	0.50	0.83	0.87	0.92	0.96	1.00
Maximum Inrush Current (A peak)	30						
Maximum Inrush Current Duration (mS)	20						
Maximum British Thermal Unit Rating (BTU-Hr)	2925	2892	2812	2812	2797	2797	2797

BTU Rating

Maximum	2925 BTU/hr @ 100 VAC	2812 BTU/hr @ 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 90% (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

Emissions Classification

FCC Rating	Class A
Normative Standards	CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438; GB9254; K22;K24; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1

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