

Channel Gateway X (CGX) is an industry-leading mainframe virtual tape (MVTTM) control unit and platform that allows data centers to leverage leading Fibre Channel, NAS or internal storage systems to reduce or eliminate physical tape and improve overall tape operations.

Solution Specifications

CGX models are available in single or dual Channel Gateway configurations, depending on throughput or availability requirements.

Mainframe Connectivity

Channel Gateways are available with ESCON or 8 Gb/s FICON connectivity to the mainframe. 8 Gb/s FICON is backwards compatible with 2 and 4 Gb/s FICON.

Storage System Connectivity

Channel Gateways are available with NFS (1 or 10 GigE) or fibre channel connectivity to attached storage systems.

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[†]

All specifications below are per Channel Gateway unit.

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

Standard Configuration	56 lb	25.4 kg
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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



Hardware Specifications

- 8 Gb/s FICON or ESCON mainframe connectivity, redundant
- NFS or Fibre Channel storage connectivity, redundant
- Dual hard drives, mirrored OS
- Dual power supplies
- 2U rack mount profile
- Industry-standard, enterprise-quality hardware components

Solution Features

- Compatible with new or existing enterprise storage systems from major vendors such as HDS, IBM, HP, EMC, EMC Data Domain, Oracle (Sun) and NetApp
- Throughput and capacity can be scaled non-disruptively
- Virtual tape cartridge sizes are configurable
- Supports up to 256K block sizes
- FICON multipathing for HA configurations and workload balancing

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
 - Floor space
 - Electrical usage
 - HVAC requirements
- For HSM, reclaim CPU cycles by skipping ML1 and migrate from ML0 to ML2
- Secure, Resilient 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

- **Complete MVT Solution**
Internal and external storage available for a complete, all-in-one mainframe virtual tape solution
- **Compression**
Increase the effective capacity of internal or attached storage
- **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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Power Specifications

Channel Gateways 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						

BTU Rating

Maximum	667 BTU/hr @ 100 VAC	641 BTU/hr @ 200 VAC
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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.