

Datasheet

FUJITSU Storage

ETERNUS LT250 TAPE LIBRARY

ETERNUS LT TAPE LIBRARY SYSTEM

ETERNUS LT tape library systems from Fujitsu have impressive scalability, reliability and technical brilliance. They pay particular close attention to the integration and smooth interaction of servers and storage systems. ETERNUS LT enables compact and extremely reliable tape library solutions for small and medium-sized enterprises.

Each library is optimized for reliability, as well as for ease of scalability. This results in a longer service life and a healthy return on your investment.

ETERNUS LT features LTO technology, which is synonymous with high capacity, high speed and very low media costs. Depending on your individual requirements, you can order your library for use with LTO-4/LTO-5/LTO-6 full height drives. LTO is the most current, future-proof standard for high data transfer rates and trouble-free transmission. This ensures ETERNUS LT series tape library investment will keep pace with future data growth.

Like all products from Fujitsu, ETERNUS LT Tape Libraries are easy to handle, extremely reliable and very reasonably priced.

ETERNUS LT250 TAPE LIBRARY

ETERNUS LT250 is an open systems tape library that employs highly reliable, large-capacity LTO Ultrium tape drives. With the capability to back up data from multiple servers into a single tape library, this model achieves efficient utilization of storage assets while reducing operating costs and TCO.

ETERNUS LT250 is a tape library for the markets for products based on open system architectures. Part of the mid-range class of tape libraries, ETERNUS LT250 unit can be mounted in a 19-inch locker and house up to 18U or 91 cartridges.

An FC-interface drive can be selected as a tape drive mounted in it. A small-size, large-capacity, high-speed backup system can be configured by mounting up to six high-performance LTO-4 tape drives, LTO-5 tape drives, and/or LTO-6 tape drives. Aside from the model that is mounted in a 19-inch rack, a standalone model is available. ETERNUS LT250 main unit and all related optional products conform to the RoHS Directive.



Floor stand



Rack mount

Features and benefits

Main features	Benefits
HIGH SPEED AND LARGE CAPACITY <ul style="list-style-type: none">■ Supports LTO-4, LTO-5, and the latest LTO-6■ Up to 91 tape cartridges with 227.5TB(LTO-6) storage capacity■ Cartridge memory (LTO-CM)	<ul style="list-style-type: none">■ High data throughput■ High investment protection■ Easy upgrade of the needed storage capacity■ Minimizes load time■ Fast access to and high-speed restoration from files
EXCELLENT CONNECTIVITY <ul style="list-style-type: none">■ Available with industry standard interface options including Fibre Channel■ Connects to a wide variety of UNIX and industry standard servers■ Tape library sharing among OS - Logical Library function	<ul style="list-style-type: none">■ Supports a heterogeneous environment
EASY OPERATION MANAGEMENT <ul style="list-style-type: none">■ Cartridge Access Station with up to 18 tape cartridges■ Operator friendly large LCD touch panel■ Web based remote management	<ul style="list-style-type: none">■ Simplifies media management■ Makes operation very easy■ Easy management from any network connected computers
HIGH RELIABILITY <ul style="list-style-type: none">■ Redundant and hot-swappable fans and power supplies■ Auto-cleaning feature	<ul style="list-style-type: none">■ Minimizes down time■ Prevents read/write errors by keeping good condition
ENHANCED SECURITY <ul style="list-style-type: none">■ WORM technology using LTO-4, LTO-5 and LTO-6■ Hardware encryption function using LTO-4, LTO-5 and LTO-6	<ul style="list-style-type: none">■ Provides data security and regulatory compliance■ Helps secure sensitive data

HIGH SPEED AND LARGE CAPACITY

ETERNUS LT250 tape library provides a high-speed data backup solution with LTO Ultrium™ drives, and offers a wide choice of storage capacity with LTO-6, LTO-5, or LTO-4 tape drives. In the never-ending struggle to manage increasingly large volumes of data, it is designed to provide the support to manage backup operations with minimal time and effort.

ETERNUS LT250 can be equipped with up to 91 tape cartridges with maximum capacity of 227.5TB.

Media management information, including indexing and statistical data on cartridge tape usage, is stored on memory chips built into each cartridge tape. This permits high speed data file access.

EXCELLENT CONNECTIVITY

For added flexibility, ETERNUS LT250 supports a maximum of 8Gbps Fibre Channel host interfaces.

It also connects to a wide variety of UNIX and industry standard servers.

The Logical Library feature (optional) enables two servers with different operating systems to share a single ETERNUS LT250.

This optimizes investment, since a single ETERNUS LT250 can be used to back up both servers in parallel.

EASY OPERATION MANAGEMENT

Setup and monitoring operations are performed using a touch panel featuring a graphic interface. In addition to functions such as cartridge operation and setting changes, ETERNUS LT250 is designed to permit management from a remote location through Web browser.

The powerful CAS (Cartridge Access Station) feature enables consecutively load and ejection of up to 18 cartridge tapes with ETERNUS LT250.

HIGH RELIABILITY

The power supply units and fans have been designed with redundancy. The redundant components can be hot-swapped in the event of failure. A specially designed tape-threading mechanism on each LTO-4/5/6 tape drive provides enhanced tape winding stability and ensures malfunction-free loading and unloading.

ENHANCED SECURITY

LTO-4/5/6 Drives support WORM(Write Once Read Many) cartridges*, enabling the creation of secure data archives. Function for the protection of original data from operation mishaps, alternation and erasure are all provided.

* Backup software supporting WORM function is required when using this function in connection with backup software.

Technical details

GENERAL SPECIFICATION

Number of cartridges	
- Note	
Number of robots	
Number of tape drives	
Number of cartridges at CAS (Cartridge Access Station)	
Interface	
Drive type	
Total capacity	Native
	Compressed
Max. Data Throughput	Native
	Compressed
Data transfer speed	Native
	Compressed
Storage capacity per tape	Native
	Compressed
Variable speed recording	
Cartridge loading time	
Hardware Encryption	
- Note	

LT250

61 - 91		
When using 1 CAS port, the max number of cartridges is 91. When using 2 CAS ports, the max number of cartridges is 82. (9 cartridges at 1 CAS port) The max number of cartridges is 88, when the auto cleaning function is used.		
1		
2 - 6		
9 or 18		
Fibre Channel (Max. 8Gbit/s)		
LTO-4 FH	LTO-5 FH	LTO-6 FH
72.8 TB	136.5 TB	227.5 TB
145.6 TB	273.0 TB	568.75 TB
(assuming 2:1)	(assuming 2:1)	(assuming 2.5:1)
240 MB/s - 720 MB/s	280 MB/s - 840 MB/s	320 MB/s - 960 MB/s
480 MB/s - 1440 MB/s	560 MB/s - 1680 MB/s	800 MB/s - 2,400 MB/s
(assuming 2:1)	(assuming 2:1)	(assuming 2.5:1)
120 MB/s	140 MB/s	160 MB/s
240 MB/s	280 MB/s	400 MB/s
(assuming 2:1)	(assuming 2:1)	(assuming 2.5:1)
800 GB	1.5 TB	2.5 TB
1600 GB	3 TB	6.25 TB
(assuming 2:1)	(assuming 2:1)	(assuming 2.5:1)
1.61m/s - 6.33m/s	1.70m/s - 5.98m/s	1.70m/s - 6.833m/s
17 sec	12 sec	12 sec
Possible	Possible	Possible
A backup software solution has to be ordered additionally to use the encryption feature successfully		

INSTALLATION SPECIFICATION

Dimension (W x D x H)	
Maximum Weight (w/o cartridges)	
- Note	

RACK MOUNT

FLOOR STAND

440 x 820 x 787 mm (18U)	546 x 969 x 897 mm
17.4 x 32.3 x 31.0 inches	21.5 x 38.2 x 35.4 inches
139 kg / 306 lbs	196 kg / 432 lbs
The weight of each cartridge is approximately 250g (0.55lbs)	

ELECTRICAL SPECIFICATION

Power	Voltage
	Phase
	Frequency
Maximum Power Consumption	
Maximum Heat Generation	

AC 100 - 240 V
Single
50/60 Hz
500 W / 660 VA
1800 kJ/h / 1706 BTU/h

ELECTRICAL SPECIFICATION

Temperature	Operating	10 - 35 °C / 50 - 95 °F
	Non-operating	-35 - 65 °C / -31 - 149 °F
Humidity	Operating	20 - 80%RH
	Non-operating	10 - 95%RH
Altitude	Operating	3000 m / 10000 ft.
	Non-operating	12000 m / 40000 ft.
Air quality		The library should be placed in an area with minimal sources of particulate contamination. Avoid areas near frequently used doors and walkways, stacks of supplies that collect dust, printers, and smoke-filled rooms. Excessive dust and debris can damage tapes and drive.

NOISE EMISSION

Sound Power Level (LWAd)	70 dB
Sound Pressure Level (LpAm)	55 dB
- Notes	measured with single enclosure according to ISO7779 and declared according to ISO9296

SUPPORTED CONFIGURATIONS

A wide range of host operating systems, servers as well as applications is supported.

For a detailed support matrix check: <http://www.fujitsu.com/global/services/computing/storage/eternus/products/tape/lt250/supported-device/>

COMPLIANCE WITH STANDARDS

Product safety	UL60950-1, CSA-C22.2 No. 60950-1, EN60950-1, IEC60950-1
Electromagnetic Compatibility	FCC CFR47 part 15 Class A, ICES-003 Class A, EN55022 Class A, VCCI Class A, AS/NZS CISPR22 Class A
Electromagnetic Immunity	EN 55024
Environmental compliance	RoHS-compliant (Restriction of hazardous substances) WEEE-compliant (Waste electrical and electronic equipment)
- Notes	There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons can be applied for on request.
Compliance link	Compliance link: https://sp.ts.fujitsu.com/sites/certificates/default.aspx

More information

Fujitsu platform solutions

In addition to Fujitsu ETERNUS, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure-as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

Computing products

www.fujitsu.com/global/services/computing/

- PRIMERGY: Industry standard server
- SPARC Enterprise: UNIX server
- PRIMEQUEST: Mission-critical IA server
- ETERNUS: Storage system

Software

www.fujitsu.com/software/

- Interstage: Application infrastructure software
- Systemwalker: System management software

More information

Learn more about Fujitsu ETERNUS, please contact your Fujitsu sales representative, Fujitsu business partner, or visit our website. www.fujitsu.com/eternus/

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT. Please find further information at: www.fujitsu.com/global/about/environment/



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2013-11-18 WW-EN