

Datasheet

FUJITSU ETERNUS LT270 S2

Highly Reliable, Large-Capacity Tape Library for Consolidated Backup of Enterprise System

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-7/LTO-8 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 LT270 S2 TAPE LIBRARY

ETERNUS LT270 S2 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 LT270 S2 provides high reliability with the duplicate cartridge carrier robots and other mechanisms. If one robot has a malfunction, the other one takes over tasks to continue system operation. A faulty robot can be hot-swapped during operation. Moreover, power supply and fans are in a redundant configuration, enabling uninterrupted operation even during hot swapping in the unlikely event of a malfunction.

Having been improved many times and repeatedly in its long history, tape media technology provides much higher reliability than other comparable technologies. The LTO Ultrium tape drive built into ETERNUS LT270 S2 uses a newly designed tape threading mechanism to further stabilize tape winding, and its variable-speed tape operation eliminates movement for tape repositioning, thereby preventing early tape deterioration and ensuring increased tape reliability.



Features and benefits

Main features	Benefits
<p>High speed and large capacity</p> <ul style="list-style-type: none"> ■ Support LTO-7 and the latest LTO-8 ■ Up to 5,644 tape cartridges with 67,728TB(LTO-8) storage capacity ■ Cartridge memory (LTO-CM) <p>High reliability</p> <ul style="list-style-type: none"> ■ Dual-robot technology ■ Redundant and hot-swappable fans, power supplies, robot controller, robot mechanism, and tape drives ■ Auto-cleaning feature <p>Excellent connectivity</p> <ul style="list-style-type: none"> ■ Available with major Fiber Channel interface ■ Connects to a wide variety of UNIX and industry standard services ■ Tape library sharing among OS – Logical Library function <p>Easy Operation Management</p> <ul style="list-style-type: none"> ■ Cartridge Access Station with up to 20 tape cartridges ■ Operator friendly large LCD touch panel ■ Web based remote management <p>Enhanced security</p> <ul style="list-style-type: none"> ■ WORM technology using LTO-7 and LTO-8 ■ Hardware encryption function using LTO-7 and LTO-8 	<ul style="list-style-type: none"> ■ High data throughput ■ High investment protection ■ Easy upgrade to the needed storage capacity ■ Minimized load time ■ Fast access to and high-speed restoration from files ■ High stable operation ■ Minimize down time ■ Prevents read/write errors by keeping good condition ■ Supports a heterogeneous environment ■ Simplifies media management ■ Makes operation very easy ■ Easy management from any network connected computers ■ Provides data security and regulatory compliance ■ Helps secure sensitive data

Topic

High speed and large capacity

ETERNUS LT270 S2 tape library provides a high-speed data backup solution with LTO Ultrium™ drives, and offers a wide choice of storage capacity with LTO-8 or LTO-7 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 LT270 S2 can be equipped with up to 5,644 tape cartridges with maximum capacity of 67,728 TB.

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.

High Reliability

Cartridge tapes are transported by internal robot. Robots are redundantly configured. If one robot fails, the other automatically takes over operation. Also, 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 tape drive provides enhanced tape winding stability and ensures malfunction-free loading and unloading.

Excellent connectivity

For added flexibility, ETERNUS LT270 S2 supports a maximum of 8Gbps Fiber Channel. It also connects to a wide variety of UNIX and industry standard servers.

The Logical Library feature (optional) enables four servers with different operating systems to share a single ETERNUS LT270 S2. This optimizes investment, since a single ETERNUS LT270 S2 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 LT270 S2 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 160 cartridge tapes with ETERNUS LT270 S2.

Enhanced security

LTO-7/8 Drives support WORM(Write Once Read Many) cartridges^{*1}, enabling the creation of secure data archives. Function for the protection of original data from operation mishaps, alternation and erasure are all provided.

^{*1} Backup software supporting WORM function is required when using this function in connection with backup software

Technical Details

General system information				LT270 S2		
				Base cabinet	Expansion cabinet	Max. Configuration (8 cabinets)
Number of cartridges				138-713	256-708	4,574-5,644
Total capacity	LTO-7	Native		828.0 – 4,278.0 TB	1,536.0 – 4,248.0 TB	27,444.0 – 33,864.0 TB
		Compressed (assuming 2.5:1)		2,070.0 – 10,695.0 TB	3,840.0 – 10,620.0 TB	68,610.0 – 84,660.0 TB
	LTO-7 Type M	Native		1,242.0 – 6,417.0 TB	2,304.0 – 6,372.0 TB	44,166.0 – 50,796.0 TB
		Compressed (assuming 2.5:1)		3,105.0 – 16,042.5 TB	5,760.0 – 15,930.0 TB	102,915.0 – 126,990.0 TB
	LTO-8	Native		1,656.0 – 8,556.0 TB	3,072.0 – 8,496.0 TB	58,932.0 – 67,728.0 TB
		Compressed (assuming 2.5:1)		4,140.0 – 21,390.0 TB	7,680.0 – 21,240.0 TB	137,220.0 – 169,320.0 TB
Number of robots				2	2	2
Number of tape drives				2-20	0-16	2-128
Number of cartridges at CAS (cartridges Access Station)				20*1	20*1	160*1
Interface				Fibre Channel (Max. 8 Gbit/s)		
*1 10 cartridges per magazine						
Drive type				LTO-7 FH		LTO-8 FH
Data transfer speed	Native			300 MB/s		360 MB/s
	Compressed			750 MB/s		900 MB/s
Storage capacity per tape	Native			6 TB		12 TB
	Compressed			15 TB		30 TB
Variable speed recording	Native			1.695 m/s – 5.117 m/s		1.742 m/s – 5.645 m/s
Cartridge loading time				15 seconds		15 seconds
Average tape access time				56 seconds		59 seconds
Hardware Encryption *2				Possible		Possible
*2 A backup software solution has to be ordered additionally to use the encryption feature successfully						
Installation specification				per cabinet		
Dimension (W x D x H)				780 x 1,270 x 1,980 mm		
Weight				650 kg*3*4		
*3 20 drives configuration (The weight of each drive is approximately 4.3 kg)						
*4 Without cartridge (The weight of each cartridge is approximately 250 g)						
Electrical specification				per cabinet		
Power	Voltage			100 V - 240 V (+/- 10%)		
	Phase			Single		
	Frequency			50 Hz / 60 Hz (+/- 5%)		
Maximum Power Consumption				1.2 kW		
Maximum Heat Generation				4,320 kJ/h		

Electrical specification

Temperature	Operating	10 - 35°C
	Non-Operating	-44 – 66 °C

Electrical specification

Humidity	Operating	10 – 80 %RH
	Non-Operating	10 - 80 %RH
Altitude	Operating	0 - 3,000 m
	Non-Operating	0 - 12,000 m
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.
*5 without cartridge		
Sound Power Level (LWAd)		7.5 B(A)
Sound Pressure Level (LpAm)		55 dB (A)
- Notes		measured with single enclosure according to ISO7779 and declared according to ISO9296

Compliance

Product safety		ANSI/UL 60950-1, CAN/CSA C22.2 No. 60950-1-07, EN 60950-1, IEC 60950-1, ANSI/UL 60950-23, CAN/CSA C22.2 No. 60950-23
Electromagnetic Compatibility		EN55032 Class A, EN61000-3-2, EN61000-3-3, ICES 003 Class A, FCC Part-15 Class A, VCCI Class A, AS/NZS CISPR32 Class A, CNS 13438
Electromagnetic Immunity		EN 55024
Environmental compliance		RoHS compliant, WEEE compliant
- 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 LT270 S2, please contact your Fujitsu sales representative, Fujitsu business partner, or visit our website.

www.fujitsu.com/eternus/

Fujitsu green policy innovation

www.fujitsu.com/global/about/environment/

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:



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