

# Datasheet FUJITSU Storage 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-4/LTO-5/LTO-6 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.







**SUPER** Green Product

This product has the top-level environmental factor in the comparison with our previous product or product in market.

## Features and benefits

Main features	Benefits		
High speed and large capacity			
■ Support LTO-4, LTO-5 and the latest LTO-6	■ High data throughput		
	High investment protection		
■ Up to 5,644 tape cartridges with 14,110 TB (LTO-6) storage capacity	Easy upgrade to the needed storage capacity		
■ Cartridge memory (LTO-CM)	■ Minimized load time		
	■ Fast access to and high-speed restoration from files		
High reliability			
■ Dual-robot technology	■ Highly stable operation		
■ Redundant and hot-swappable fans, power supplies, robot controller,	■ Minimize down time		
robot mechanism, and tape drives			
■ Auto-cleaning feature	■ Prevents read/write errors by keeping good condition		
Excellent connectivity			
Available with major Fibre Channel interface	■ Supports a heterogeneous envitronment		
■ Connects to a wide variety of UNIX and industry standard servers	- The second sec		
Easy Operation Management			
■ Cartridge Access Station with up to 20 tape cartridges	■ Simplifies media management		
■ Operator friendly large LCD touch panel	■ Makes operation very easy		
■ Web based remote management	■ Easy management from any network connected computers		
Enhanced security			
■ WORM technology using LTO-4, LTO-5 and LTO-6	■ Provides data security and regulatory compliance		
■ Hardware encryption function using LTO-4, LTO-5 and LTO-6	■ Helps secure sensitive data		
= 1.3.3.3.3.2 Cite / point function daing Ero 1, Ero 3 and Ero 0	ps seed a sensitive data		

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### High speed and large capacity

ETERNUS LT270 S2 tape library provides a high-speed data backup solution with LTO Ultrium<sup>TM</sup> 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 LT270 S2 can be equipped with up to 5,644 tape cartridges with maximum capacity of 14,110 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 hotswapped in the event of failure.

A specially designed tape-threading mechanism on each LTO-4 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 Fibre Channel. It also connects to a wide variety of UNIX and industry standard servers.

### 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 128 cartridge tapes with ETERNUS LT270 S2.

### **Enhanced security**

LTO-4/5/6 Drives support WORM( Write Once Read Many ) cartridges<sup>\*1</sup>, 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.

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## Technical details

General system information		LT270 S2		
		Base cabinet	Max	. configuration (8 cabinets)
Number of robots		2		16
Number of tape drives		2-20		2-128
Number of cartridges at CA	S (Cartridge Access Station)	20		160
Max. Number of cartridges		713		5,644
Max. capacity LTO-4 Nat		570.4 TB		4,515.2 TB
Сог	mpressed (assuming 2:1)	1,140.8 TB		9,030.4 TB
LTO-5 Nat	tive	1,069.5 TB		8,466.0 TB
	mpressed (assuming 2:1)	2,139.0 TB		16,932.0 TB
LTO-6 Nat		1,7382.5 TB		14,110.0 TB
	mpressed (assuming 2.5:1)	4,456.2 TB		35,275.0 TB
Max. Data transfer speed			73.7 TB / h	
Drive type		LTO-4 FH	LTO5-FH	LTO6-FH
Data transfer speed	Native	120 MB /s	140 MB /s	160 MB /s
	Compressed	240 MB /s	280 MB /s	400 MB /s
Storage capacity per tape	Native	800 GB	1.5 TB	2.5 TB
	Compressed	1,600 GB	3 TB	6.25 TB
Host Interface	LTO-4		ore Channel (Max. 4 Gbit/s	
	LTO-5 / LTO-6	Fibre Channel (Max. 8 Gbit/s)		
Variable speed recording	Native	1.61 m/s – 6.33 m/s	1.70 m/s – 5.98 m/s	1.70 m/s – 6.83 m/s
Cartridge loading time		17 sec	12 sec	12 sec
Average tape access time		65 sec	71 sec	62 sec
Buffer size		128 MB	256 MB	512 MB
Hardware Encryption*1		Possible	Possible	Possible
<sup>^1</sup> A backup software solution	ı has to be ordered additionally to	use the encryption feature successfully		
Installation specification				
Dimension (W x D x H)		780 x 1,270 x 1,980 mm	6,1	56 x 1,270 x 1,980 mm
Weight*2				4,864 kg
*2 Without cartrigde (The wei		030 kg		
J ,	ight of each cartridge is approxim			
	ght of each cartridge is approxim			
	3 11	ately 250 g)	100 V - 240 V (+/- 10%)	
Electrical specification	ight of each cartridge is approxim  Voltage  Phase	ately 250 g)	100 V - 240 V (+/- 10%) Single	
Electrical specification	Voltage	ately 250 g)		
Electrical specification Power	Voltage Phase	ately 250 g)	Single	9.6 kW
Electrical specification Power  Max. Power Consumption	Voltage Phase	ately 250 g)	Single	9.6 kW 34,560 kJ/h
Electrical specification Power  Max. Power Consumption Max. Heat Generation	Voltage Phase	ately 250 g) 1.2 kW	Single	
Electrical specification Power  Max. Power Consumption Max. Heat Generation  Environmental specification	Voltage Phase	1.2 kW 4,320 kJ/h	Single 50 Hz / 60 Hz (+/- 5%)	34,560 kJ/h
Electrical specification Power  Max. Power Consumption Max. Heat Generation  Environmental specification Temperature	Voltage Phase	ately 250 g)  1.2 kW  4,320 kJ/h  10 - 35°C (Op	Single	34,560 kJ/h -operating)
Electrical specification Power  Max. Power Consumption Max. Heat Generation  Environmental specification Temperature	Voltage Phase	ately 250 g)  1.2 kW  4,320 kJ/h  10 - 35°C (Op	Single 50 Hz / 60 Hz (+/- 5%) erating), -44 – 66 °C (Non	34,560 kJ/h -operating)
Electrical specification Power  Max. Power Consumption Max. Heat Generation  Environmental specification Temperature Humidity  Compliance	Voltage Phase	ately 250 g)  1.2 kW  4,320 kJ/h  10 - 35°C (Op	Single 50 Hz / 60 Hz (+/- 5%) erating), -44 – 66 °C (Non- perating), 10 - 95 %RH (N	34,560 kJ/h -operating) on-operating)
Electrical specification Power  Max. Power Consumption Max. Heat Generation  Environmental specification Temperature Humidity  Compliance Product safety	Voltage Phase Frequency	1.2 kW 4,320 kJ/h 10 - 35°C (Op 20 – 80 %RH (O	Single 50 Hz / 60 Hz (+/- 5%)  erating), -44 – 66 °C (Non- perating), 10 - 95 %RH (N	34,560 kJ/h -operating) on-operating) 60950-1 2 <sup>nd</sup> Edition
Electrical specification Power  Max. Power Consumption Max. Heat Generation  Environmental specification Temperature Humidity	Voltage Phase Frequency	1.2 kW 4,320 kJ/h 10 - 35°C (Op 20 - 80 %RH (O	Single 50 Hz / 60 Hz (+/- 5%)  erating), -44 − 66 °C (Non- perating), 10 - 95 %RH (N	34,560 kJ/h -operating) on-operating) 60950-1 2 <sup>nd</sup> Edition
Electrical specification Power  Max. Power Consumption Max. Heat Generation  Environmental specification Temperature Humidity  Compliance Product safety	Voltage Phase Frequency	1.2 kW 4,320 kJ/h 10 - 35°C (Op 20 - 80 %RH (Op UL60950-1 2 <sup>nd</sup> Edition, CSA60950-1 2 CNS13438(C6357) Class A, FCC CFR47	Single 50 Hz / 60 Hz (+/- 5%)  erating), -44 − 66 °C (Non- perating), 10 - 95 %RH (N	34,560 kJ/h -operating) on-operating) 60950-1 2 <sup>nd</sup> Edition
Electrical specification Power  Max. Power Consumption Max. Heat Generation  Environmental specification Temperature Humidity  Compliance Product safety Electromagnetic Compatibi	Voltage Phase Frequency	1.2 kW 4,320 kJ/h 10 - 35°C (Op 20 – 80 %RH (Op UL60950-1 2 <sup>nd</sup> Edition, CSA60950-1 2 CNS13438(C6357) Class A, FCC CFR47 EN55022 Class A, VCCI Class A, AS/NZ	Single 50 Hz / 60 Hz (+/- 5%)  erating), -44 - 66 °C (Non- perating), 10 - 95 %RH (Non- perating), 10 -	34,560 kJ/h -operating) on-operating) 660950-1 2 <sup>nd</sup> Edition Class A,

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### 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.

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### Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global knowhow, 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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