

Fujitsu Storage Systems

# ETERNUS LT270

Tape Library

## Highly reliable, large-capacity tape library for consolidated backup of Enterprise system

ETERNUS LT270 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.



### LT270

Storage capacity: Max. 549TB  
(In uncompressed mode)  
Data transfer speed: Max. 8.64TB/h

### High speed and large capacity

ETERNUS LT270 is based on fourth-generation, high-capacity LTO Ultrium™ drive technology.\* In the never-ending struggle to manage increasingly large volumes of data, it is designed to provide you with the support you need to manage backup operations with minimal time and effort.

- Data transfer speed 120MB/sec
- Storage capacity 800GB per cartridge (In uncompressed mode)
- Maximum of 709 cartridge tapes (each up to 800GB) can be installed, providing total consolidated backup capacity of 549TB.
- 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.

\* Ultrium 3 cartridge tape is also available.

### 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 Ultrium 4 tape drive provides enhanced tape winding stability and ensures malfunction-free loading and unloading.

### Excellent connectivity

For added flexibility, ETERNUS LT270 supports a maximum of 4Gbps Fibre Channel. It also connects to a wide variety of UNIX and IA servers.

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

### Enhanced security

LTO Ultrium 3 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.

# ETERNUS LT270

## Specifications

Model		LT270			
Number of cartridges*1		134 [114]	248 [228]	470 [448]	601 - 709 [579 - 687] *2
Storage capacity	Ultrium 3 data cartridge (In uncompressed mode)	45.6TB	91.2TB	179.2TB	231.6TB - 274.8TB
	Ultrium 4 data cartridge (In uncompressed mode)	91.2TB	182.4TB	358.4TB	436.2TB - 549.6TB
Number of cabinets		1			
Installed components	Number of robots	2			
	Number of cartridges at CAS*3	20 (10 cartridges per magazine x 2CASs)			
	Number of tape drives	2 - 20			
Tape drive specifications	Ultrium 3 drive	Data transfer speed	160MB/sec (In compressed mode) / 80MB/sec (In uncompressed mode)		
		Storage capacity	800GB/tape (In compressed mode) / 400GB/tape (In uncompressed mode)		
	Ultrium 4 drive	Data transfer speed	240MB/sec (In compressed mode) / 120MB/sec (In uncompressed mode)		
		Storage capacity	1,600GB/tape (In compressed mode) / 800GB/tape (In uncompressed mode)		
Host interface		Fibre Channel			
Dimensions [WxDxH] (mm)		780 x 1,270 x 1,980 (including main body)			
Max. weight (kg)*4		670			
Power requirements	Voltage	AC200 - 240V			
	No. of phases	Single			
	Frequency	50Hz / 60Hz			
Max. power consumption (W)		3,200			
Max. heat dissipation (kJ/h)		16,000			
Environmental conditions	Temperature	10 - 35°C(operating), -44 - 66°C(non-operating)			
	Humidity	20 - 80% (operating), 10 - 95% (non-operating)			

\*1: The number of cartridges includes 20 cartridges for CASs and 2 cartridges for system cells. [ ] shows the number of cartridges for cells which can be used as user cartridges excluding CASs and system cells.

\*2: The max number of cartridges depends on the number of tape drives.

\*3: CAS stands for Cartridge Access Station.

\*4: The indicated number is maximum weight of LT270 body, not including media.

## Supported servers/OS/Software

Supported Servers		Supported OS	Backup software
Backup server	PRIMEQUEST	Red Hat Enterprise Linux AS (v.4 for Itanium)	VERITAS NetBackup 6.0 NetWorker 7.3 NetVault 7
		Windows Server®2003, Enterprise Edition for Itanium-based Systems Windows Server®2003, Datacenter Edition for Itanium-based Systems	VERITAS NetBackup 6.0
	SPARC Enterprise	Solaris™10 Operating System	VERITAS NetBackup 6.0 NetWorker 7.x
	PRIMEPOWER Sun Fire, Sun Enterprise	Solaris™ 9 Operating System	VERITAS NetBackup 6.0, NetWorker 7.x
		Solaris™ 10 Operating System	Tivoli® Storage Manager EE 5.x EMC DiskTender for UNIX Storage Manager 3.x
	PRIMERGY IA servers (Various companies)	Windows® 2000 Windows Server®2003, Standard Edition Windows Server®2003, Enterprise Edition Windows Server®2003 R2, Standard Edition Windows Server®2003 R2, Enterprise Edition	VERITAS NetBackup 6.0 NetWorker 7.x Tivoli® Storage Manager EE 5.x BrightStor ARCserve Backup r11.5 Symantec Backup Exec 11d EMC DiskTender for Windows 6.x
		Windows Server®2003, Standard x64 Edition Windows Server®2003, Enterprise x64 Edition Windows Server®2003 R2, Standard x64 Edition Windows Server®2003 R2, Enterprise x64 Edition	VERITAS NetBackup 6.0 Tivoli® Storage Manager EE 5.x Symantec Backup Exec 11d BrightStor ARCserve Backup r11.5
		Red Hat Enterprise Linux AS (v.3 for x86) Red Hat Enterprise Linux ES (v.3 for x86)	VERITAS NetBackup 6.0 NetWorker 7.x NetVault7 Tivoli® Storage Manager EE 5.x
		Red Hat Enterprise Linux AS (v.4 for x86) Red Hat Enterprise Linux ES (v.4 for x86) Red Hat Enterprise Linux AS (v.4 for EM64T) Red Hat Enterprise Linux ES (v.4 for EM64T)	VERITAS NetBackup 6.0 NetVault7 Tivoli® Storage Manager EE 5.x
		Red Hat Enterprise Linux AS(v.3 for Itanium)	NetWorker 7.x NetVault 7
		Red Hat Enterprise Linux AS(v.4 for Itanium)	VERITAS NetBackup 6.0 NetWorker 7.3 NetVault 7
		SUSE Linux Enterprise Server9 for x86 SUSE Linux Enterprise Server 9 for EM64T	VERITAS NetBackup 6.0 NetWorker 7.3 NetVault 7 Tivoli® Storage Manager EE 5.x
		HP9000 series, Integrity	HP-UX11i v2
	RS/6000 series, pSeries	IBM-AIX 5L V5.3	VERITAS NetBackup 6.0 NetWorker 7.x Tivoli® Storage Manager EE 5.x

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