

Fujitsu Storage Systems

ETERNUS LT250

Tape Library

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

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.

Rack mount

Storage capacity: Max. 72.8TB
(In uncompressed mode)
Data transfer speed: Max 2.59TB/h

**Floor stand**

Storage capacity: Max. 72.8TB
(In uncompressed mode)
Data transfer speed: Max 2.59TB/h

High speed and large capacity

ETERNUS LT250 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 91 cartridge tapes (each up to 800GB) can be installed, providing total consolidated backup capacity of 72.8TB.
- 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

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 LT250 supports a maximum of 4Gbps Fibre Channel or Ultra160 SCSI host interfaces*. It also connects to a wide variety of UNIX and IA servers.

* Host interface must be selected as either Fibre Channel or SCSI. Mixed environments are not supported.

The Logical Library feature (optional) enables two servers with different operating systems to share a single LT250. This optimizes investment, since a single 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.

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.

Specifications

Model name		LT250	
Form factor		Rack mount	Floor stand
Number of cartridges		61-91 ^{*1*}	
Storage capacity	Ultrium 4 cartridge tape	Max. 72.8TB (In uncompressed mode)	
	Ultrium 3 cartridge tape	Max. 36.4TB (In uncompressed mode)	
Tape drive specifications	Ultrium 3 drive	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	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)
Average tape access time		23 seconds	
Installed components	Number of Robots	1	
	Number of cartridges at CAS ^{*3}	9 or 18	
	Number of Tape drives	2 - 6	
Host interfaces		SCSI (Ultra160 LVDS) ^{**} / Fibre Channel (Max. 4Gbps)	
Dimensions [WxDxH] (mm)		440x820x787(18U)	546x969x897
Max. weight (kg) ^{*5}		139	196
Power requirements	Voltage	AC100 - 240V	
	Phase	Single	
	Frequency	50/60Hz	
Max. power consumption (W)		500	
Max. heat dissipation (kJ/h)		1,800	
Environmental conditions	Temperature	10 - 35°C (Operating), -35 - 65°C (Non-operating)	
	Humidity	20 - 80%RH (Operating), 10 - 95%RH (Non-operating)	

*1 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.

*3 CAS stands for Cartridge Access Station.

** SCSI host interface is available only for Ultrium 3 drives.

*5 The number indicated is maximum weight of LT250 body, not including media. (Weight of each cartridge is about 250g.)

Supported servers/OS/Software

Supported Servers	Supported OS	Backup software
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 Solaris™ 10 Operating System	VERITAS NetBackup 6.0, NetWorker 7.x Tivoli® Storage Manager EE 5.x EMC DiskXtender for UNIX Storage Manager 3.x
Backup server 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 DiskXtender 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-UX11iV2
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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