



LTO Ultrium

LTO is a highly reliable and durable data storage format that's perfect for large-scale archiving and data-intensive back-up. LTO features compressed capacities ranging from 200GB to a massive 3TB with the recent introduction of LTO5 generation.

Better cost per GB, vast capacity, low energy consumption, robustness, portability, and scalability are LTO unrivalled attributes which have built its strong reputation over the past few years into the IT rooms.

Product Features

- ▶ Massive Storage capacity of up to 3 TB compressed data with LTO5 (1.5 TB native)
- ▶ Impressive data transfer rate of up to 280 MB/s compressed with LTO5 (140 MB/s native)
- ▶ Secured 8-generation roadmap
- ▶ Open format, media compatible with Ultrium drives & libraries
- ▶ Rapid data access thanks to 8 KB LTO memory chip
- ▶ WORM format (Write-Once Read-Many) available for LTO3, LTO4 and LTO5 for secure archiving

Benefits from Sony

- ▶ High reliability and durability thanks to the latest and ultrathin coating technology developed in-house
- ▶ Lifetime Guarantee*
- ▶ Library packs: cost-time-space-environmental effective storage solution
- ▶ Customised labelling service
- ▶ First class services (European technical centre, Data Recovery, Tape media health analysis)
- ▶ LTO5 cartridges are ideal for with RFID labels

Logistics

Model Name	SAP name	EAN/UPC code (piece)	Master carton Qty (pcs)
LTO Ultrium 1	LTX100GN	0 27242 59065 6	20
LTO Ultrium 2	LTX200GN	0 27242 63446 6	20
LTO Ultrium 2, Library Pack, 20 pieces	20LTX200GNLP	0 27242 72176 0	-
LTO Ultrium 3	LTX400GN	0 27242 66544 6	20
LTO Ultrium 3, Worm	LTX400GWN	0 27242 67316 8	20
LTO Ultrium 3, Library Pack, 20 pieces	20LTX400GNLP	0 27242 72177 7	-
LTO Ultrium 4	LTX800GN	0 27242 71754 1	20
LTO Ultrium 4, Worm	LTX800GWN	0 27242 72249 1	20
LTO Ultrium 4, Library Pack, 20 pieces	20LTX800GNLP	0 27242 72178 4	-
LTO Ultrium 5	LTX1500GN	0 27242 79521 1	20
LTO Ultrium 5, Worm	LTX1500GWN	0 27242 79576 1	20
LTO Ultrium 5, Library Pack, 20 pieces	20LTX1500GNLP	0 27242 79524 2	-
LTO Cleaning	LTXCLN	0 27242 61877 0	20

*Media estimated lifetime to be advised by Sony. This guarantee applies on product purchased as of 2005 in EEA countries, Russia & Turkey.

Specifications

General Characteristics	LTX-100G	LTX-200G	LTX-400G	LTX-800G	LTX-1500G
Format	LTO-1	LTO-2	LTO-3	LTO-4	LTO-5
			Worm	Worm	Worm
Storage Capacity	200GB	400GB	800GB	1.6TB	3.0TB
Compressed* (Native)	(100GB)	(200GB)	(400GB)	(800GB)	(1,5TB)
Transfer Rates	40MB/s	80MB/s	160MB/s	240MB/s	280MB/s
Compressed* (Native)	(20MB/s)	(40MB/s)	(80MB/s)	(120MB/s)	(140MB/s)
Magnetic Material	Metal Particle (MP)				
Built-in RF-ID Memory Chip (byte)	4096	4096	4096	8192	8192
Magnetic Characteristics					
Coercive Force (kA/m)	157	200	220	220	230
Physical Characteristics					
Tape Thickness (µm)	8.8	8.8	8.0	6.6	6.4
Tape Width (mm)	12.65	12.65	12.65	12.65	12.65
Tape Length (m)	609	609	680	820	846
Environmental Requirements					
Operating Conditions	50~113 (10~45); 10~80 (°f(°c); %rh**)				
Storage Conditions					
Short Term conditions	60~90 (16~32); 20~80 (°f(°c); %rh**)			60~95 (16~35); 20~80 (°f(°c); %rh**)	
Archive conditions				60~77 (16~25); 20~50 (°f(°c); %rh**)	
Tape Dimensions (nominal)					
Cartridge Dimensions (mm)	102.0x105.4x21.5				
Weight (g)	275 (with case)				

*Compression ratio: 2:1 **Maximum we: bulb temperature: No condensation at 26°C (79°F).

Drive / Media Compatibility

Model Name	Drive Model				
	LTO Ultrium Drive 1	LTO Ultrium Drive 2	LTO Ultrium Drive 3	LTO Ultrium Drive 4	LTO Ultrium Drive 5
LTO1 Cartridge	Read/Write	Read/Write	Read Only	-	-
LTO2 Cartridge	-	Read/Write	Read/Write	Read Only	-
LTO3 Cartridge	-	-	Read/Write	Read/Write	Read Only
LTO3 WORM Cartridge	-	-	Read/Write*	Read/Write*	Read Only
LTO4 Cartridge	-	-	-	Read/Write	Read/Write
LTO4 WORM Cartridge	-	-	-	Read/Write**	Read/Write**
LTO5 Cartridge	-	-	-	-	Read/Write
LTO5 WORM Cartridge	-	-	-	-	Read/Write***

*This cartridge is designed for use specifically with WORM compatible drives that use the LTO Ultrium 3 format.

**This cartridge is designed for use specifically with WORM compatible drives that use the LTO Ultrium 4 format.

***This cartridge is designed for use specifically with WORM compatible drives that use the LTO Ultrium 5 format.

Eight-Generation Roadmap

		Encryption	Encryption	Partitioning	Partitioning	Partitioning	Partitioning
		WORM	WORM	WORM	WORM	WORM	WORM
Gen 1	Gen 2	Gen 3	Gen 4	Gen 5	Gen 6	Gen 7	Gen 8
Compressed Capacity							
200 GB	400 GB	800 GB	1.6 TB	3 TB	8 TB	16 TB	32 TB
Compressed Transfer Rate							
up to 40 MB/s	up to 80 MB/s	up to 160 MB/s	up to 240 MB/s	up to 280 MB/s	up to 525 MB/s	up to 788 MB/s	up to 1180 MB/s

Note: Compressed capacities for generations 1-5 assume 2:1 compression. Compressed capacities for generations 6-8 assume 2.1:1 compression (achieved with larger compression history buffer). Source: The LTO Program. The LTO Ultrium roadmap is subject to change without notice and represents goals and objectives only.



Save time, space and money with **LTO library packs from Sony**. Designed for higher volume users each pack contains 20 pieces of LTO Ultrium - perfect for saving time, money and storing more data ! And with less packaging, Sony contributes to waste reduction and limits energy consumption : save by 65%** plastic by preferring Library Pack instead of Single Cartridge.

Sony's library packs are available for LTO 2, 3, 4 and LTO5.

Visit our website:
www.pro.sony.eu/storage-media

** Comparing the LTO single pack to the LTO library pack (20 pieces) (According to Sony testing)