



FUJIFILM

LTO Ultrium™ G6

Trust in the Future.

Trust in us.





Barium Ferrite



Trust in the future. Trust in us

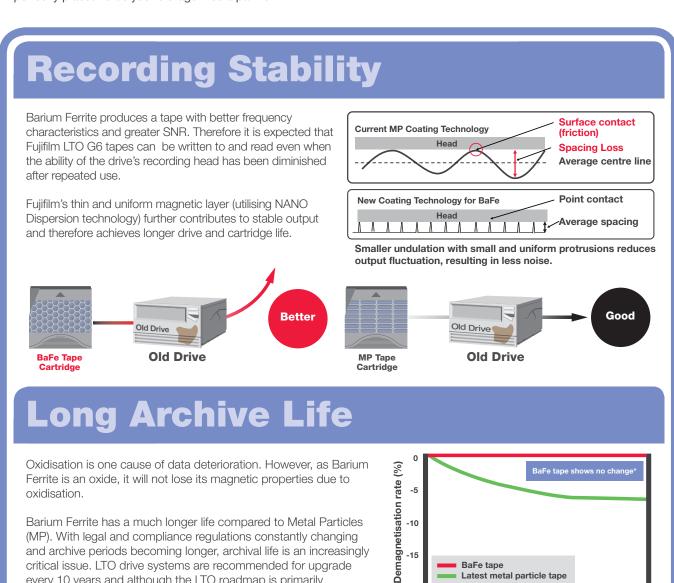
critical issue. LTO drive systems are recommended for upgrade

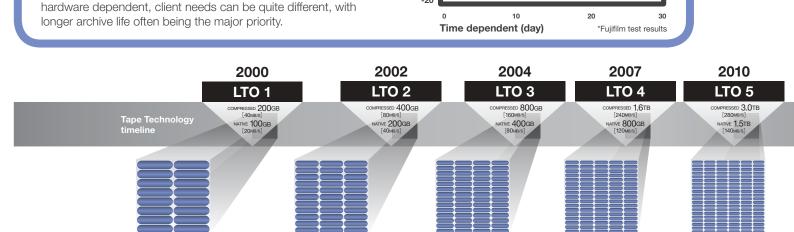
every 10 years and although the LTO roadmap is primarily

The Fujifilm LTO Ultrium™ G6 is the first LTO cartridge in the world to be produced with Barium Ferrite (BaFe) magnetic particles using Fujifilm's core NANOCUBIC™ technology. This unique structure produces a BaFe tape with Higher Capacity, Greater SNR and Recording Stability along with a Longer Archival Life. Fujifilm's NANOCUBIC™ technology coats the BaFe particles in an extremely uniform manner, resulting in a much smoother magnetic surface, significantly enhancing performance.

Realising a super high compressed (2.5x) storage capacity of 6.25TB and transfer rates up to 400 MB/s, Fujifilm's LTO G6 cartridges are perfect for meeting the ever increasing demands for long term file storage and data management.

Fujifilm's proprietary technology is already used in enterprise tapes such as StorageTek T10000C and IBM 3592 JC and BaFe is the new technology that will be used in future generations of LTO Ultrium™ tapes. As the largest volume manufacturer in the world, with leading tape technology developed alongside the main drive manufacturers, Fujifilm are perfectly placed to be your storage media partner.





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BaFe tape

Latest metal particle tape

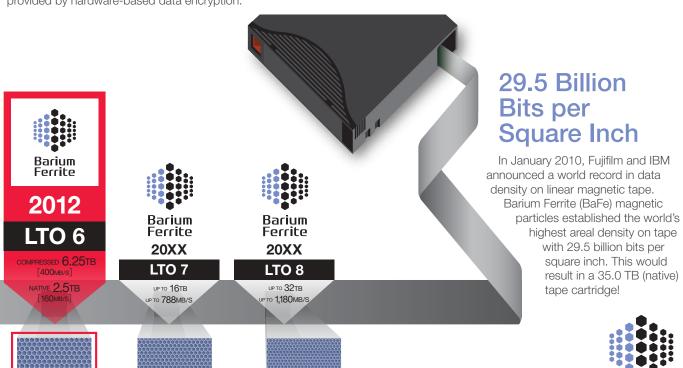
Higher Capacity and SNR Fujifilm's unique NANOCUBIC™ BaFe technology enables **Barium Ferrite (BaFe) Metal Particle (MP)** much smaller and perpendicularly magnetised particles, a key factor in the production of high capacity, reliable and durable tapes. Current Metal Particles are approximately 40-100 nm whereas Barium Ferrite are just 20nm, 50 to 80% smaller. Barium Ferrite is also perpendicularly magnetised, providing greater signal to noise performance and less output loss compared to Metal Particle. 40-100nm BaFe perpendicularly magnetised M.P horizontally magnetised +Bit Cell -Bit Cell

LTFS, WORM and Encryption

Reduced output loss

As with LTO G5, the LTO G6 hardware incorporates the Advanced Encryption Standard (AES) and Linear Tape File System (LTFS) dual portioning functionality. When used with the LTFS, the tape can function much like an external disc drive, for example, one partition holds your valuable content another acts as an index. Archiving content to tape in the workflow can be achieved by a simple drag and drop process. This system offers fast and easy file management and interchange with high speed streaming, perfect for video and media management, surveillance, medical imaging and other applications.

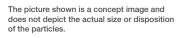
Fujifilm LTO G6 is available in WORM - Write Once Read Many, providing protection from accidental overwrite. Extra security is provided by hardware-based data encryption.











Output loss due to demagnetisation



Media / Drive Compatibility

Drive		G1 Drive	G2 Drive	G3 Drive	G4 Drive	G5 Drive	G6 Drive
Media	G1	0	0	Δ	×	×	×
	G2	×	0	0	Δ	×	×
	G3	×	×	0	0	Δ	×
	G4	×	×	×	0	0	Δ
	G5	×	×	×	×	0	0
	G6	×	×	×	×	×	0

O: Able to Read / Write ∆: Able to Read Only ×: Not Compatible

• FUJIFILM Brand LTO - Media Specification

LTO Generation		LTO G1	LTO G2	LTO G3 / G3 WORM	LTO G4 / G4 WORM			
Basic Specifications	Capacity (Native / Compressed)	100GB(200GB)	200GB(400GB)	400GB(800GB)	800GB(1.6TB)			
	Transfer Rate (Native / Compressed)	Up to 20MB/sec. (Up to 40MB/sec.)	Up to 40MB/sec. (Up to 80MB/sec.)	Up to 80MB/sec. (Up to 160MB/sec.)	Up to 120MB/sec. (Up to 240MB/sec.)			
	Number of Tracks	384	512	704	896			
	Servo Method	Timing-based servo						
	Cartridge Memory	32	65,280bits(8,160bytes); Internal EEPROM					
	Encryption function		0					
Durability	Tape Running (Nominal)	1,000,000 passes						
	Estimated Archival Life	30 years						
Physical Characteristics	Tape Width	12.65mm						
	Tape Thickness	8.9	μm	8.0µm	6.6µm			
	Tape Length	609	9m	680m	820m			
	Cartridge Dimensions							
Operating Environmental Conditions	Temperature	10-45℃						
	Humidity	10-80% (No Dew Condensation)						
	Max. Wet Bulb Temperature							
Storage Environmental Conditions	Temperature (Short Term / Archival)							
	Humidity (Short Term / Archival)							
	Max. Wet Bulb Temperature (Short Term / Archival)							

LTO Generation		LTO G5 / G5 WORM	LTO G6 / G6 WORM	Universal Cleaning Cartridge*
Basic Specifications	Capacity (Native / Compressed)	1.5TB(3.0TB)	2.5TB(6.25TB)	_
	Transfer Rate (Native / Compressed)	Up to 140MB/sec. (Up to 280MB/sec.)	Up to 160MB/sec. (Up to 400MB/sec.)	_
	Number of Tracks	1,280	2,176	_
	Servo Method	Timing-ba	_	
	Cartridge Memory	65,280 bits (8,160 bytes); Internal EEPROM	130,816 bits (16,352 bytes); Internal EEPROM	32,768 bits (4,096 bytes); Internal EEPROM
	Encryption function	(_	
Durability	Tape Running (Nominal)	1,000,00	_	
	Estimated Archival Life	30 y	_	
Physical Characteristics	Tape Width		12.65mm	
	Tape Thickness	6.4µm	6.1µm	_
	Tape Length	84	319m	
	Cartridge Dimensions	H. 102.0 × W. 105.4 × D. 21.5mm		
Operating Environmental Conditions	Temperature		10-45℃	
	Humidity	10-80% (No Dew Condensation)		
	Max. Wet Bulb Temperature		26℃	
Storage Environmental Conditions	Temperature (Short Term / Archival)		16-35℃ / 16-25℃	
	Humidity (Short Term / Archival)	2	n)	
	Max. Wet Bulb Temperature (Short Term / Archival)		26℃	

Linear Tape-Open, LTO, the LTO Logo, Ultrium and the Ultrium Logo are registered trademarks of HP, IBM and Quantum in the US and other countries.

Note: Specifications are subject to change without notice.

*The universal cleaning cartridge is capable of being used in all generation 1/2/3/4/5/6 Ultrium format tape drives. Specific revisions of firmware may be required for proper operation.



