

# LTO Ultrium 8

Capacity : 12TB (30TB compressed)

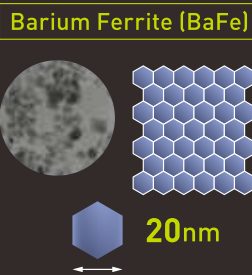
Maximum transfer rate : 360MB/sec  
(750MB/sec compressed)

Internet of Things, Information and Communication Technology, and utilization of Artificial Intelligence for Big Data analysis, the amount of data generated globally continues to increase exponentially with the ongoing digital transformation and expansion of high resolution 4K / 8K video. There is also an acceleration to actively leverage Big Data while keeping it in secured and cost-effective storage for the long term. FUJIFILM LTO Ultrium 8 (LTO8) is a new-generation storage medium that meets such needs from the market. FUJIFILM's proprietary technology has achieved twice the recording capacity of LTO7, resulting in greater efficiency to store and utilize the data.



## Large capacity

BaFe magnetic particles measuring only about 20nm, allowing a large number of particles to be laid on the same surface. This significantly increases an areal recording density, thereby dramatically boosting the tape's storage capacity.



## Long-term storage

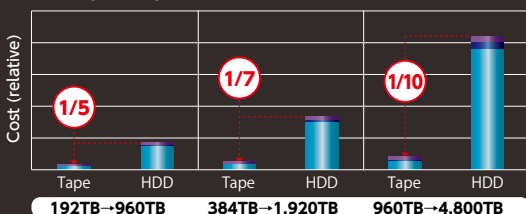
While the primary cause of magnetic degradation is oxidation, as BaFe magnetic particle is already a ferric oxide, it will not suffer oxidation. This is why BaFe tape offers superior archivability. FUJIFILM's accelerated test has shown that the tape offers stable data storage for more than 50 years.



## Economic performance

Compared to hard disk storage (HDD), LTO tape storage has superior cost performance as it provides lower cost per TB and requires almost no electricity in storing data.

Tape device superiority ■ Facility cost ■ Electricity cost ■ Hardware cost

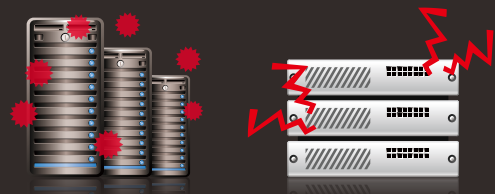


Capacity increase over five years

Source:JEITA

## Safety

Tape can physically isolate data from the network to create an air gap, minimizing the risk of data loss due to cyberattacks, enabling to safely store your important data.



System or data damage by computer viruses

Sudden system shutdown or crash

# Evolution and future of LTO tape technology

Magnetic tapes are expected to achieve even greater capacity increase.  
At present, a roadmap toward 192TB (LTO12) is planned for LTO tapes.

■ : Roadmap ■ : On sale



## Media / drive compatibility

		G2 drive	G3 drive	G4 drive	G5 drive	G6 drive	G7 drive	G8 drive
Media	G2	○	○	△	×	×	×	×
	G3	×	○	○	△	×	×	×
	G4	×	×	○	○	△	×	×
	G5	×	×	×	○	○	△	×
	G6	×	×	×	×	○	○	×
	G7	×	×	×	×	×	○	○
	G8	×	×	×	×	×	×	○

## Main specifications of LTO cartridges

		LTO CL <sup>®</sup>	LTO G2	LTO G3/G3 WORM	LTO G4/G4 WORM	LTO G5/G5 WORM	LTO G6/G6 WORM	LTO G7/G7 WORM	LTO G8/G8 WORM
Basic specifications	Capacity (maximum compression)	—	200GB (400GB)	400GB (800GB)	800GB (1.6TB)	1.5TB (3.0TB)	2.5TB (6.25TB)	6TB (15TB)	12TB (30TB)
	Maximum data transfer rate (compressed)	—	40MB/s (80MB/s)	80MB/s (160MB/s)	120MB/s (240MB/s)	140MB/s (280MB/s)	160MB/s (400MB/s)	300MB/s (750MB/s)	360MB/s (750MB/s)
	Number of tracks	—	512 (8 track head serpentine)	704 (16 track head serpentine)	896 (16 track head serpentine)	1,280 (16 track head serpentine)	2,176 (16 track head serpentine)	3,584 (32 track head serpentine)	6,656 (32 track head serpentine)
	Servo method	—	Timing-based servo						
Cartridge memory	32,786 bits (4,096 bytes); internal EEPROM with electromagnetic induction antenna				65,280 bits (8,160 bytes); internal EEPROM with electromagnetic induction antenna		130,816 bits (16,352 bytes); internal EEPROM with electromagnetic induction antenna		
Physical specifications	Tape width	12.65mm							
	Tape thickness	8.9μm	8.9μm	8.0μm	6.6μm	6.4μm	6.1μm	5.6μm	
	Tape length	319m	609m	680m	820m	846m		960m	
Operating conditions	Cartridge dimensions	H102.0 x W105.4 x D21.5mm							
	Temperature	10~45°C							
	Humidity	10~80%RH (No condensation)							
	Maximum wet-bulb temperature	26°C							
Storage conditions	Temperature (short-term / long-term)	16~35°C / 16~25°C							
	Humidity (short-term / long-term)	20~80%RH / 20~50%RH (No condensation)							
	Maximum wet-bulb temperature	26°C							
Supported system	Encryption support	×	×	×	○	○	○	○	○
	LTFs support	×	×	×	×	○	○	○	○

The cleaning cartridge is universally usable for all 2/3/4/5/6/7/8 drives. (Some exceptions may apply.)

## Lineup of LTO data cartridges

	LTO G2	LTO G3	LTO G4	LTO G5	LTO G6	LTO G7	LTO G8
Model number	LTO FB UL-2 200G J	LTO FB UL-3 400G J	LTO FB UL-4 800G U	LTO FB UL-5 1.5T J	LTO FB UL-6 2.5T J	LTO FB UL-7 6.0T J	LTO FB UL-8 12.0T J
JAN code	4902520 249975	4902520 273703	4547410 019100	4547410 119169	4547410 237061	4547410 316971	4547410 364828

## Lineup of WORM-type and cleaning cartridges

	LTO CL	LTO G3 WORM	LTO G4 WORM	LTO G5 WORM	LTO G6 WORM	LTO G7 WORM	LTO G8 WORM
Model number	LTO FB UL-1 CL UCC J	LTO FB UL-3WORM 400G J	LTO FB UL-4WORM 800G U	LTO FB UL-5WORM 1.5T J	LTO FB UL-6WORM 2.5T J	LTO FB UL-7WORM 6.0T J	LTO FB UL-8WORM 12.0T J
JAN code	4902520 241603	4902520 274465	4547410 019193	4547410 119183	4547410 237078	4547410 316995	4547410 364835

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Specifications are subject to change without notice. This product catalogue is correct and accurate as of September 2019.

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Portal website for information on tape storage <http://tape-storage.net>

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