

# maxell

SUPERIOR DATA PERFORMANCE

## LTO Ultrium 4

1/2" Tape Cartridge

800 GB | 1.6 TB



**Superior Performance — Highest Capacity**

### FEATURES

- Up to 1.6TB capacity and 240MB/s transfer rate
- Encryption capability enables hardware based writing of encrypted data to the LTO data cartridge, to protect sensitive information
- Patented corrosion resistant Ceramic Armor metal particles provide superior data life
- High coercivity micro-particles provide a high level of output; a superior signal-to-noise ratio; and a low, stable error rate
- Advanced Dispersion Technology (ADT) for strong signal strength and consistent high-density recording
- Ultra-thin coating eliminates magnetic interference while increasing signal clarity
- Maxell High Precision Servo Track (HSPT) keeps servo tracks perfectly aligned for precise head tracking
- Extremely smooth and rigid PEN base film provides stable and reliable data recording / playback
- Proprietary cross linking binder structure provides superior tape strength
- Advanced calendaring ensures smooth and even tape with consistent tape to head contact for low error rate
- Heavy duty cartridge and leader pin are tested at more than 20,000 load / unload cycles
- The cartridge is rated for over 1 million head passes with a 30+ year storage life
- Proprietary cartridge locking mechanism prevents tape movement and slack during transportation and storage
- Cartridge semiconductor memory chip for high speed data searches and library cartridge management
- Maxell Universal Cleaning Cartridge is compatible with ALL Ultrium drives
- Custom bar-coding available using high quality Tri-Optic / EDP labels

### APPLICATIONS

- From entry level departmental servers to complex enterprise class storage area networks
- Server back up and restore
- Data storage and archiving
- Library automation

**Encryption Capability  
keeps sensitive data safe**

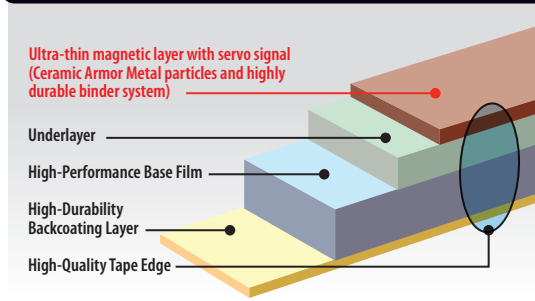
**LTO WORM**  
(Write Once Read Many)  
Prevents data from being erased or overwritten — meeting government compliance and regulatory requirements.

**ULTRIUM**  
LTO 4





## MAXELL ULTRA-THIN LAYER TECHNOLOGY



Ceramic Coating Process: Maxell's patented ceramic coating process acts as a protective armor for the fine metal particles in the magnetic layer of the tape to guard against heat, humidity, abrasion and oxidation.



Maxell's innovative Neo Super Maximum capacity Advanced Reliability Tape technology platform (NeoSMART) is a convergence of advanced tape and manufacturing technologies producing the highest reliability in data storage and recovery. The improved magnetic particles, new coating and dispersion technologies, advanced cartridge shell design, and the other components of the NeoSMART platform are designed to support tape cartridge capacities in excess of 1 Terabyte.

## SPECIFICATIONS

MODEL	LTO 4	LTO 4 WORM	LTO 3	LTO 3 WORM	LTO 2	LTO 1	LTO CLEAN CART
<b>RECORDING CAPACITY</b>	800 GB/ 1.6 TB	800 GB/ 1.6 TB	400 / 800 GB	400 / 800 GB	200 / 400 GB	100 / 200 GB	50+ Cleaning Passes*
<b>TRANSFER RATE</b>	NATIVE 120 MB/s	120 MB/s	40 / 80 MB/s	40 / 80 MB/s	20 / 40 MB/s	10 / 20 MB/s	—
	COMPRESSED 240 MB/s	240 MB/s	80 / 160 MB/s	80 / 160 MB/s	40 / 80 MB/s	20 / 40 MB/s	—
<b>TAPE</b>	LENGTH 2,690 ft (820m)	2,690 ft (820m)	2,230 ft (680m)		1,998 ft (609m)		—
	WIDTH	1/2" (12.7mm)					—
	THICKNESS	6.6µm	8µm		9µm	9µm	—
<b>TAPE TYPE</b>	Patented Ceramic Coated Metal Particle						
<b>COERCIVITY</b>	2,700ce		2,700ce		2,450ce	1,950ce	—
<b>CARTRIDGE</b>	DIMENSIONS 4.1" x 4.0" x .8" (102.0mm x 105.4mm x 21.5mm)						
	COLOR Teal		Teal / Gray	Gray-Blue	Gray-Blue / Gray	Purple	Black
<b>ARCHIVAL STORAGE</b>	30+ Years						—
<b>TAPE DURABILITY RATING</b>	1,000,000+ Head Passes						50+ Cleaning Passes*
<b>OPERATING ENVIRONMENT</b>	50° - 113°F (10° - 45°C) 10% - 80% RH (no condensation)		50° - 113°F (10° - 45°C) 10% - 80% RH (no condensation)		—		—
<b>STORAGE ENVIRONMENT</b>	61°F - 95°F (16°C - 35°C) 20 - 80% RH (no condensation)		61° - 95°F (16° - 35°C) 20% - 80% RH (no condensation)		61° - 77°F (16° - 25°C) 20% - 80% RH (no condensation)		—
<b>ARCHIVAL ENVIRONMENT</b>	61°F - 77°F (16°C - 25°C) 20 - 50% RH (no condensation)		—		—		—

\*Actual number of cleaning cycles is drive dependent

## LTO LINEUP

MODEL	LTO 4	LTO 4 WORM	LTO 3	LTO 3 WORM	LTO 2	LTO 1	LTO CLEAN CART
<b>ITEM #</b>	183906	183907	183900	183950	183850	183800	183804
<b>INNER CARTON / MASTER QTY.</b>	5/20	5/20	5/20	5/20	5/20	5/20	5/20
<b>PALLET QUANTITY</b>	1,200	1,200	1,200	1,200	1,200	1,200	1,200
<b>UPC CODES</b>	UNIT 0-25215-62453-7	UNIT 0-25215-62264-9	UNIT 0-25215-62456-8	UNIT 0-25215-62662-3	UNIT 0-25215-62451-3	UNIT 0-25215-62450-6	UNIT 0-25215-62454-4
	MASTER 100-25215-62453-4	MASTER 100-25215-62264-0	MASTER 100-25215-62456-5	MASTER 100-25215-62662-0	MASTER 100-25215-62451-0	MASTER 100-25215-62450-3	MASTER 100-25215-62454-1
<b>DIMENSIONS</b>	UNIT 4.3" W x 4.5" D x 1.1" H						
	INNER 4.8" W x 6.1" D x 4.8" H						
	MASTER 11.1" L x 13.1" W x 6.3" H						
<b>CUBE</b>	UNIT 0.013						
	INNER 0.079						
	MASTER 0.488						
<b>WEIGHT</b>	UNIT 0.6 lb.						
	INNER 3.2 lbs.						
	MASTER 13.5 lbs.						

## LTO ULTRIUM CARTRIDGE & DRIVE COMPATIBILITY

CARTRIDGE	DRIVE			
	LTO 1	LTO 2	LTO 3	LTO 4
LTO 1	Read / Write	Read / Write	Read	—
LTO 2	—	Read / Write	Read / Write	Read
LTO 3	—	—	Read / Write	Read / Write
LTO 3 WORM	—	—	Read / Write Once	Read / Write Once
LTO 4	—	—	—	Read / Write
LTO 4 WORM	—	—	—	Read / Write Once
LTO CLEANING CARTRIDGE	OK	OK	OK	OK

Maxell Computer Tapes are backed by a Lifetime Limited Warranty. Linear Tape-Open, LTO, the LTO Logo, Ultrium and the Ultrium Logo are trademarks of HP, IBM and Quantum in the U.S., other countries or both.



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