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## TDK LTO ULTRIUM 4 DATA CARTRIDGES WORLD'S FIRST TO PASS COMPLIANCE TEST

*-- Groundbreaking New LTO Ultrium 4 Media Products Feature Large 800GB Capacity and High-Speed 120MB/s Transfer Rate --*

GARDEN CITY, NY, April 25, 2007 - TDK Corporation today announced that its two new fourth-generation LTO Ultrium 4 data cartridges are the world's first to have passed certification testing by the CVE (Compliance Verification Entity), the organization responsible for LTO standardization. TDK will begin shipping its rewritable and recordable LTO4 media products to OEM customers in May 2007.

A recording media expert, TDK has always worked in close concert with drive manufacturers to develop media products that perform seamlessly with the hardware devices in which they're used. Through its collaboration with hardware manufacturers, TDK was able to create ultra-performance LTO Ultrium 4 media, and become the world's first to pass strict certification testing by the CVE.

As digital networks grow in scope and complexity, the volume of data that must be managed continues to increase considerably, creating demand for storage solutions with higher capacities and faster data transfer rates than previous systems. LTO Ultrium 4, with its large 800GB capacity (1.6TB with 2:1 compression) and rapid 120MB/s data transfer rate (240MB/s with 2:1 compression), is the newest backup system for today's high-speed, large-capacity servers.

To achieve its remarkable capacity, the LTO Ultrium 4 data cartridge utilizes tape with 12.65mm width and 896 recording tracks (compared to 384 tracks for LTO Ultrium 1, 512 tracks for Ultrium 2 and 704 tracks for Ultrium 3). The tape thickness has been reduced to facilitate incorporating more tape into the cartridge. As a result, considerably greater precision, performance and durability are required.

TDK's LTO Ultrium 4 LTO data cartridges feature the most advanced magnetic material and tape technology, leveraging the company's longstanding expertise in the development of LTO Ultrium media and other recording media products.

Several key technologies enable TDK manufactured LTO Ultrium 4 tapes to achieve ultra-stable read and write signals. These include specially designed, ultra-fine metal particles with high output power, an ultra-thin, dual-layer tape coating technology that controls the thickness of the magnetic layer to the nanometer order, and a special servo writer that's used to record high-precision servo signals. To achieve maximum performance and seamless interplay with the drive, the advanced cartridge mechanism includes a high-precision leader pin, new multi-strut construction for the reel hub to realize high circular precision, and other advancements.

The aforementioned features and technologies enable the TDK manufactured LTO Ultrium 4 data cartridges to meet today's most demanding data storage requirements.

Main features of the TDK LTO Ultrium 4 data cartridge:

1. Finest-ever metal magnetic material realizes higher output power.

2. Special base film with strong, ultra-smooth surface and outstanding dimensional stability.
3. High-precision ultra-thin, dual-layer tape coating technology realizes stable output.
4. Electron-beam Curing EB binder and thermo-setting TDC binder realize high durability.
5. Original servo signal writing technology enables read/write accuracy.
6. High-precision cartridge mechanism enables seamless drive/media interaction, for added reliability.
7. Write-once (WORM\* type) recordable LTO Ultrium 4 media will be launched at the same time as rewritable media.

\*WORM (Write Once Read Many)

#### TDK LTO Ultrium 4 Data Cartridge Specifications

Item	Unit	Recordable	Rewritable (WORM)
Basic specifications			
Magnetic particle	-	Metal	
Storage capacity	GByte	800*	
Data transfer rate	MB/s	~120*	
Cartridge color	-	Blue-green	Blue-green & light-grey
Dimensions			
External cartridge dimensions	mm	102.0 ´ 105.4 ´ 21.5	
Tape width	mm	12.65	
Tape thickness	mm	6.6	
Tape length	m	820	
Operating Conditions			
Temperature	°C	+10 to +45	
Humidity	%RH	10 to 80**	
Max. wet bulb temperature	°C	+26	
Short-term Storage conditions***			
Temperature	°C	+16 to +35	
Humidity	%RH	20 to 80**	
Max. wet bulb temperature	°C	+26	
Long-term Storage conditions***			
Temperature	°C	+16 to +25	
Humidity	%RH	20 to 50**	
Max. wet bulb temperature	°C	+26	

\*Values are without data compression. With 2:1 compression, capacity and data transfer rate are doubled.  
\*\*Without condensation. \*\*\* Short-term conditions refer to a period of up to six months; long-term conditions refer to over six months. • Do not expose to an ambient magnetic field of greater than 4000A/m.  
•Dimensions are nominal.  
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### **About TDK**

TDK Electronics Corporation is a subsidiary of TDK Corporation (NYSE: TDK), a global electronics company headquartered in Tokyo, Japan. A leading supplier of advanced recording media technology to OEM customers in the Americas and Europe, TDK Electronics Corporation is on the forefront of next-generation technologies such as Blu-ray Disc recording media, an optical disc ideally suited for data archival and high-definition video recording. TDK Electronics also offers professional data storage solutions including LTO Ultrium media, DAT-72, DAT-160 and DDS4.

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