



LTO-8 TECHNOLOGY

LTO-8 tape technology is the latest generation of tape storage to surpass the expectations of companies around the world. Designed to stand up to the rigorous requirements of the most demanding storage environments, LTO-8 technology provides industry-leading capacity, performance, compatibility, interchange and cost control in an open format that's backed by some of the most reliable names in storage.

With up to 12 Terabytes (TB) of native storage (30 TB compressed), LTO-8 tapes provide double the compressed capacity of the previous LTO-7 generation. It's fast too, with up to 360 MB/sec native transfer rate (up to 750 MB/sec compressed). That's nearly 2.7 TB of data transferred per drive/hour (compressed).

LTO-8 technology continues to provide the compatibility that we know you've come to trust, so you can be confident that your investment will be protected for years to come. However, we do feel obliged to push the innovation boundaries of tape technology going forward, and so the current LTO format required a recording technology transition that supports capacity growth for future LTO generations. Therefore in order to address this technological shift, protect your investments as technology needs change and maintain affordability in times of extreme data growth, LTO-8 drives are only backwards compatible with the previous generation.

For added protection and performance, LTO tape drive encryption is specified in all LTO generations since LTO-4. It features a 256-symmetric key AES-GCM algorithm that is implemented at the drive level, which enables compression before encryption to maximize tape capacities and deliver high performance during backup. LTO Program WORM implementation is designed to provide users a very cost effective means of storing data in a non-rewriteable format to address compliance regulations. With the growing importance of regulatory compliance — including the Sarbanes-Oxley Act of 2002, the Health Insurance Portability and Accountability Act of 1996 (HIPAA), and SEC Rule 17-a-4(f) — there is a need for a cost-effective storage medium that can preserve corporate data in a non-rewriteable, non-erasable and unalterable format.

LTO technology is an “open” format, meaning that many different competing companies are producing LTO drives and LTO cartridges that are compatible with each other, so you'll have multiple sources of product and media — avoiding vendor lock-in.

256	UP TO 30 _{TB}	UP TO 360 _{MB/SEC}
BIT ENCRYPTION	STORAGE CAPACITY PER CARTRIDGE	NATIVE TRANSFER RATE

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Key Facts

- Capacity: up to 12 TB/cartridge native; up to 30TB/cartridge (2.5:1 compressed)
- Performance: up to 360 MB/sec native; up to 750 MB/sec (2.5:1 compressed)
- Security: WORM (Write Once Read Many) cartridges and AES 256 bit Tape Drive Hardware Encryption
- LTO-8 media is the most cost-effective way to manage data growth
- Compatibility: LTO-8 can read/write to LTO-7 cartridges

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