

It's Time For Tape

Discover the Future of Secure and Sustainable Data Storage

What is LTO Tape?

LTO Tape is magnetic tape technology that is used for the long-term preservation and storage of data. The latest generations offer a lifespan of thirty plus years and provides a scalable and cost-effective storage solution for a wide range of industries with a native capacity of up to 40 TB. Linear Tape-Open (LTO) is an open standardised format and Fujifilm is the leading tape manufacturer worldwide. Pioneering tape coating technologies including Barium Ferrite (BaFe) and Strontium Ferrite (SrFe) have enabled a constant increase in capacity and a roadmap that extends to 576 TB on a single cartridge. Tape technology is used across multiple industries including Scientific, Financial, Media and Entertainment and Cloud Providers. In fact, any organisations who need to store data.



Security

Air-gap protection
against cyber threats



Cost-effectiveness

Up to 63% cost savings
compared to HDD*

*Brad Johns Consulting LLC, 08.2025



Longevity

Archive life of the tape of 30+ years
(particles and base film)



Sustainability

Up to -95% CO₂ emissions and
-96%** energy consumption*

*Brad Johns Consulting LLC, 08.2025



Reliability

Up to 100,000 x greater data
integrity than HDD



Scalability

Future-proof roadmap of
up to 576 TB per cartridge



Data Sovereignty

On premise tape solution that
gives you full control of your data



Compliance

A solution that helps to comply
with data protection regulations*

*including NIS2, DORA, CADA

Latest Technology Innovation

Whilst magnetic tape technology has existed for decades, the first LTO was launched in 2000. Since then, it has revolutionised the way in which data is stored allowing long-term, reliable data preservation. The latest generation, LTO-10, features next-generation hybrid particles, combining FUJIFILM Nanocubic Coating Technologies, patented by Fujifilm with Strontium Ferrite (SrFe) and Barium Ferrite (BaFe) particles, pushing the native capacity up to 40 TB.

The Future of Data Preservation is Here.

Getting Started Using LTO Tape

What is required for a tape solution?

The correct LTO configuration depends on data volume and the required level of automation. It consists of investing in hardware, software and tape media. A tape solution can range from a standalone drive or small autoloader to a large tape library, which automates media management and has the ability to store multiple petabytes of data in a single location. We recommend storing two copies of your data on separate tapes. One copy can then be kept offline at a different location, creating a physical air gap from the network and providing a reliable basis for disaster recovery when needed.

LTO TAPE SOLUTION



Why is tape demand increasing at such a rate?

Data volumes are growing exponentially worldwide and tape is the only technology that is keeping pace, not only by offering a highly secure solution, but also in terms of sustainability and cost effectiveness. Many factors are driving a significant increase in both the volume of generated data and the need to store data. Tape has the capacity to absorb high volumes of data in a limited floor space occupancy. According to current estimations, the demand for tape is expected to grow approximately 30-40% between 2024 and 2027. With this context, the benefits of LTO tape technology are even more prominent - a well-established roadmap, future-proof technology and a cost-effective archiving solution that meets the evolving requirements of data management.

“Tape’s low energy is a huge positive in the storage industry, giving companies huge saving in cost and carbon impact. HDD and SSD are handling far too much cold data using massive amounts of energy.”

John Monroe, Furthur Market Research



Please contact
us for further
information