

# DATASHEET

## FUJITSU LTO Desktop Drive

### ENTRY BACKUP DEVICE INTO LTO TAPE STORAGE

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#### General Overview

The LTO Desktop Drive from Fujitsu is an entry-level component into the tape backup and is available with the LTO-4 or LTO-5 technology. Both models can be attached to various open system servers via the SAS (Serial Attached SCSI) interface.

Tape remains a key component of the data center and is ideally suited for long-term data protection. The successful path taken in the tape storage sector is continued with the fifth generation of the Linear Tape Open (LTO) standardized drive technology.

The performance, capacity and reliability of the LTO desktop drive meet current and future requirements. Native encryption and WORM capability offer customers the security features needed for compliance and privacy initiatives. Thanks to backwards compatibility the LTO technology offers a very high investment protection.

#### LTO-5 Desktop Drive

The new LTO-5 tape drive's 1TB/hr (compressed 2:1) maximum transfer rate and fast 6Gb/s SAS interface means that up to 3TB of compressed (2:1) data can be backed up onto a single LTO-5 cartridge in three hours.

For customers still using older tape technologies, the new LTO technology will offer a significant return on investment opportunity by reducing backup time and the number of tapes needed, and also provides substantial new features like encryption.



# FEATURES AND BENEFITS

## MAIN FEATURES

### LTO TECHNOLOGY

- High transfer rate
- High data capacity
- Backwards compatibility

### INTERFACE

- SAS technology

### DATA PROTECTION AND COMPLIANCE

- Encryption support
- WORM capability

### DIMENSION

- Half height drives

## BENEFITS

- Up to 3TB (compressed LTO-5) resp. 1.6TB (compressed LTO-4) data on a single cartridge
- Backup of up to 1TB compressed data in one hour
- Existing tape media can be used
- High investment protection
  
- Future-proof, fault-tolerant, robust
- High data throughput
  
- High data security
- Fulfils legal and regulatory compliance requirements
  
- Cost saving: cheaper than full height drives
- Smaller, needs less space



# TECHNICAL DETAILS

<b>GENERAL SPECIFICATION</b>		
Drive type	LTO-4 HH	LTO-5 HH
Interface	SAS	SAS
Total capacity native	0.8 TB	1.5 TB
Total capacity compressed*	1.6TB	3 TB
No. of slots	1	1
No. of MTC drives	1	1
Max. data throughput native/compressed*	288 / 576 GB/hr	504 / 1008 GB/hr
<b>DRIVES</b>		
Drive type - HH (half height)	LTO-4	LTO-5
Write/read speed		
at write/read head native/compressed *	80 / 160 MB/s	140 / 280 MB/s
Variable speed recording**	33 - 80 MB/s	44 - 140 MB/s
Buffer size	128 MB	256 MB
Data compression factor*	2	2
Recording format	Multiple Track linear	Multiple Track linear
Maximum data rate (interface)	3 Gbit/s	6 Gbit/s
<b>PROCESSES DATA VOLUMES</b>		
LTO-1	-	-
LTO-2	Read	-
LTO-3	Write / Read	Read
LTO-3 WORM	Write Once / Read Multiple	Read
LTO-4	Write / Read	Write / Read
LTO-4 WORM	Write Once / Read Multiple	Write Once / Read Multiple
LTO-5	-	Write / Read
LTO-5 WORM	-	Write Once / Read Multiple
<b>CARTRIDGE DATA VOLUMES</b>		
LTO-1 (native / compressed*)	-	-
LTO-2 (native / compressed*)	200 / 400 GB	-
LTO-3 (native / compressed*)	400 / 800 GB	400 / 800 GB
LTO-3 WORM (native / compressed*)	400 / 800 GB	400 / 800 GB
LTO-4 (native / compressed*)	800 / 1600 GB	800 / 1600 GB
LTO-4 WORM (native / compressed*)	800 / 1600 GB	800 / 1600 GB
LTO-5 (native / compressed*)	-	1500 / 3000 GB
LTO-5 WORM (native / compressed*)	-	1500 / 3000 GB
Bandwidth	½ inch	½ inch
*Note	As used for storage capacity, one gigabyte (GB) = one billion bytes, one terabyte (TB) = one trillion bytes. Assuming a compression factor of 2 (The compression factor depends on the data structure and is typically 2 or less.)	
**Note	Uncompressed at nominal capacity.	
<b>DIMENSIONS / WEIGHT</b>		
Height x width x depth	290 x 390 x 470 mm	290 x 390 x 470 mm
Max. weight, w/o cartridge	3750 g	3750 g
<b>ELECTRICAL SPECIFICATIONS</b>		
Power voltage	85 - 264 V (± 5%)	85 - 264 V (± 5%)
Power frequency	50/60 Hz (± 5%)	50/60 Hz (± 5%)
Typical power consumption (Watt)		
Switched OFF mode	3.5 W	3.5 W
Unit ready (no tape loaded into drive)	32 W	32 W
Write/read data	48 W	48 W
<b>CLIMATIC CONDITIONS</b>		
Operating range		
Temperature	10 - 35 °C	10 - 35 °C
Rel. humidity	20 - 80 %	20 - 80 %
<b>COMPLIANCE</b>		

<b>Product safety</b>	EN55022Class A, EN55024, EN61000-3-2, EN61000-3-3
<b>Electromagnetic compatibility</b>	CE-Conformity, CB-Certificate, ETLc/us
<b>Environmental compliance</b>	RoHS compliant, WEEE compliant
<b>MAINTENANCE AND SERVICE SUPPORT</b>	
<b>Recommended service level</b>	24x7 Onsite Service with 4h Response Time
<b>Available service level</b>	<a href="http://ts.fujitsu.com/services/maintenance_support/hardware_services.html">ts.fujitsu.com/services/maintenance_support/hardware_services.html</a>
<b>Important note</b>	For use with the LTO Desktop Drive, only cartridges certified by Fujitsu with the label "Fujitsu - Preferred Quality" are permitted.  This product and the accessories (components/materials) released for it by Fujitsu comply with the protection targets of Emission Class A. In special cases, measures for reducing the electromagnetic interference on other devices may be necessary.

**FUJITSU PLATFORM SOLUTIONS**

In addition to Fujitsu LTO Desktop Drive, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

**Dynamic Infrastructures**

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

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**MORE INFORMATION**

Learn more about Fujitsu LTO Desktop Drive, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.  
[ts.fujitsu.com/storage](http://ts.fujitsu.com/storage)

**FUJITSU GREEN POLICY INNOVATION**

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT. Please find further information at [fujitsu.com/global/about/environment/](http://fujitsu.com/global/about/environment/)



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**CONTACT**

FUJITSU Technology Solutions  
Email: [storage-pm@ts.fujitsu.com](mailto:storage-pm@ts.fujitsu.com)  
Website: [ts.fujitsu.com/storage](http://ts.fujitsu.com/storage)  
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