

# Data Sheet

## Fujitsu PRIMERGY LTO-5 HH Ultrium Backup Tape Device

### Backup and archive solution

Have you ever lost data from your computer for some unfathomable reason? Then you will know that data saved on your hard disk is not always available and secure for all times. If you want to be on the safe side, then you should save your data regularly using an external medium.

The PRIMERGY backup solutions provide reliable protection against losing data and a fast data backup combined with a large amount of storage capacity. You can choose between backup technologies, such as DDS and LTO tape drives or RDX from the latest Removable Disk technology. Each company can thus find the perfect data backup solution for its particular requirements. Downwards compatibility with the respective predecessors is sensible not only regarding upgrades for the future but also as a secure investment.

The half-height of the current models enables you to install the drives directly into the servers and thus save space and money.

#### PRIMERGY LTO-5 HH Ultrium

For the first time, the fifth generation of the Linear Tape Open (LTO-5) tape drive offers uncompressed storage capacity of 1.5 TB per tape and a transfer rate of up to 280 MB/s. With enabled compression up to 3000 GB can be backed up on a single drive. The advantage is that the LTO-5 drive guarantees the protection of your investment by ensuring full

compatibility to LTO-4 media. Furthermore, the reading of LTO-3 media is supported.

One major advantage of the LTO-5 is the encryption now offered for the first time with an Open-Systems tape drive. Normal industry standard AES-GCM-256-Bit encryption ensures that the data can also be decrypted in the years to come. This means that you will be able to utilize full performance of the drives and the compression modes.

The industry standard SAS interface ensures ease of installation and integration in your server or data center.

With its high storage capacity and transfer rate the LTO-5 offers a trend-setting safeguard for your server systems.



Main Features	Benefits
<ul style="list-style-type: none"> <li>■ Compact size as well as high transfer rates of up to 180 MB/s.</li> <li>■ Energy efficient design</li> <li>■ Investment protection</li> <li>■ AES-GCM-256-Bit encryption</li> </ul>	<ul style="list-style-type: none"> <li>■ Fastest and smallest (half height) LTO drive for integration in all servers.</li> <li>■ Low power consumption and cooling costs plus excellent performance</li> <li>■ Read/write compatibility with LTO-4 media as well as read compatibility with LTO-3 media</li> <li>■ Ensures that data can still be deciphered after a few years.</li> </ul>

# Technical details

## Backup and archiving solutions

Capacity	1500 GB uncompressed / 3000 GB compressed
Buffer size	256 MB
Transfer rate	140 MB/s (uncompressed), 280 MB/s (compressed), Variable 47 to 140 MB/s (LTO5 uncompressed)
Recording format	Ultrium LTO5
Interface	SAS 6Gb/s
Data transfer rate (burst)	600 MB/s
Device load / unload cycles	80000
Cartidge load / unload cycles	100000
Backwards compatible	Read/write compatibility with LTO4 Ultrium Read compatible with LTO3

Data compression	ALDC
Data cassette	LTO 3,4,5 LTO 3,4,5 WORM

## Security

Data encryption	AES-GCM 256
Certification level	FIPS140-2 certification level 1

## Reliability

MTBF	250,000 hours
Hard Read Error Rate	$1 \times 10^{-17}$
Delivery and Media Link	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=2201cb10-c310-461e-9920-0f1effa5ab03">http://docs.ts.fujitsu.com/dl.aspx?id=2201cb10-c310-461e-9920-0f1effa5ab03</a>

## Dimensions / Weight

Dimensions (W x D x H)	146.05 mm x 206 mm x 41.65 mm
Weight	1.41 K g

## Environmental

Operating ambient temperature	10 - 40°C
Operating relative humidity	20 - 80 % (relative humidity, non-condensing)
Temperature note	Storage ambient temperature: -40 - 66°C Storage/transport relative humidity: 10 - 95 %

## Electrical values

Apparent power (max. configuration)	5 * 3.7 VA 12 * 2.3 VA
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## Compliance

Compliance notes	According to the corresponding system
Compliance link	<a href="https://sp.ts.fujitsu.com/sites/certificates/default.aspx">https://sp.ts.fujitsu.com/sites/certificates/default.aspx</a>

# More information

## Fujitsu platform solutions

In addition to Fujitsu PRIMERGY LTO-5 HH Ultrium, 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.

### Computing Products

[www.fujitsu.com/global/services/computing/](http://www.fujitsu.com/global/services/computing/)

### Software

[www.fujitsu.com/software/](http://www.fujitsu.com/software/)

## More information

Learn more about Fujitsu PRIMERGY LTO-5 HH Ultrium, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.  
<http://ts.fujitsu.com/Primergy>

## 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 <http://www.fujitsu.com/global/about/environment/>



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