

# Data Sheet

## FUJITSU Storage ETERNUS LT60 S2 Tape System

The Scalable Mid-range Tape System for High Capacity Requirements



### ETERNUS LT Tape Storage

The affordable ETERNUS LT tape systems offer impressive scalability and reliability. The highly automated and cost-efficient backup solution meets a wide range of demanding storage requirements including long-term archiving, disaster recovery and unattended backup for businesses of all sizes. The ETERNUS LT family provides data encryption offering enhanced security and compliance.

### ETERNUS LT60 S2

The Fujitsu Storage ETERNUS LT60 S2 is a highly reliable and cost effective tape library ideal for midsized businesses or branch offices. It combines exceptional storage density and up to 1440 TB of compressed capacity in a compact 4U form factor. The pay-as-you-grow concept provides high investment protection. The ETERNUS LT60 S2 is certified for market-leading backup and archiving software. Highly automated, simple and remote operation enables usage without any demand for local expert skills. The standardized LTO technology features high capacity, high speed and low cost. The ETERNUS LT60 S2 provides hardware-based data encryption offering enhanced security and compliance.



# Features & Benefits

| Main Features  | Benefits  |
|--|---|
| <b>High Density Tape Automation</b> <ul style="list-style-type: none"><li>■ Ultra-compact product with up to 48 slots in four height units</li><li>■ Up to four LTO drives with SAS or Fibre Channel interface</li></ul> | <ul style="list-style-type: none"><li>■ Ensures user-friendly and secure backup and archiving</li><li>■ Minimizes administration efforts while saving time and money</li><li>■ SAS interface allows flexible storage architecture at relatively low cost</li><li>■ High data throughput reduces dramatically the backup time</li></ul>      |
| <b>Broad Scalability and Flexibility</b> <ul style="list-style-type: none"><li>■ Upgradeability from 24 to 36 or 48 slots via software license</li><li>■ Partitioning via license key</li></ul>                          | <ul style="list-style-type: none"><li>■ Easy upgrade to the needed storage capacity provides high investment protection</li><li>■ Makes it easier to separate different LTO generations, avoids undesired incompatible media loads</li><li>■ Build up to four independent libraries out of one system</li></ul>                             |
| <b>Easy Management</b> <ul style="list-style-type: none"><li>■ Remote management utility and user friendly operator panel</li><li>■ Mail slot</li><li>■ Barcode reader</li></ul>   | <ul style="list-style-type: none"><li>■ Automatism help to decrease the error rate of backup processes</li><li>■ Easy administration enables configuration and diagnostic</li><li>■ Quick input and output of up to three cartridges</li><li>■ Short initialization time thanks to slot barcodes, also with unoccupied data slots</li></ul> |
| <b>Data Security</b> <ul style="list-style-type: none"><li>■ Encrypts data autonomously with hardware encryption through LTO drive</li><li>■ Supports WORM media</li></ul>   | <ul style="list-style-type: none"><li>■ Minimizes performance impact for encryption</li><li>■ Guarantees high data security</li><li>■ Fulfills compliance regulations</li></ul>   |

# Technical details

## General system information

|  |  |                    |   |                    |   |                    |
|--|--|--------------------|---|--------------------|---|--------------------|
| <b>Minimum configuration</b>             | LTO-8, half height   | LTO-8, half height | LTO-7, half height  | LTO-7, half height | LTO-6, half height  | LTO-6, half height |
| <b>Tape system interface</b>             | Fibre Channel  | SAS                | Fibre Channel   | SAS                | Fibre Channel   | SAS                |
| <b>Number of tape drives</b>             | 1 - 4 HH   |                    |   |                    |   |                    |
| <b>Number of slots</b>                   | 24 - 48  |                    |   |                    |   |                    |
| <b>Max. data throughput nat./compr.</b>  | 4.3 / 10.8 TB/hr.  |                    |   | 2.3 / 5.8 TB/hr.   |   |                    |
| <b>Total capacity native</b>             | 288 - 576 TB   |                    | 144 - 288 TB  |                    | 60 - 120 TB   |                    |
| <b>Total capacity compressed</b>         | 720 - 1,440 TB   |                    | 360 - 720 TB  |                    | 150 - 300 TB  |                    |
| <b>Write/read speed</b>                  | 300 / 750 MB/s   |                    |   | 160 / 400 MB/s     |   |                    |
| <b>Variable speed recording uncompr.</b> | 100 - 300 MB/s   |                    |   | 53 - 160 MB/s      |   |                    |
| <b>Buffer size</b>                       | 1000 MB  |                    |   | 512 MB             |   |                    |
| <b>Recording format</b>                  | Multiple track linear  |                    |   |                    |   |                    |
| <b>Maximum data rate</b>                 | 8 Gbit/s   | 6 Gbit/s           | 8 Gbit/s  | 6 Gbit/s           | 8 Gbit/s  | 6 Gbit/s           |
| <b>Media Capacity (uncompr./compr.)</b>  | 12,000 GB / 30,000 GB  |                    | 6,000 GB / 15,000 GB  |                    | 2,500 GB / 6,250 GB   |                    |
| <b>Backwards compatible</b>              | Read/write compatibility with LTO-7  |                    | Read/write compatibility with LTO-6<br>Read compatible with LTO-5 |                    | Read/write compatibility with LTO-5<br>Read compatible with LTO-4 |                    |
| <b>Tape width</b>                        | 1/2 inch   |                    |   |                    |   |                    |
| <b>Encryption</b>                        | possible   |                    |   |                    |   |                    |
| <b>Compression note</b>                  | As used for storage capacity, one gigabyte (GB) = one billion bytes, and one terabyte (TB) = one trillion bytes. Compressed data assume a compression factor of 2.5 (LTO-6, LTO-7, LTO-8). The compression factor depends on the data structure. Uncompressed at nominal capacity.                       |                    |   |                    |   |                    |
| <b>Note</b>                              | LTO-8 also includes a new format feature that allows customers to write 22.5 TB on LTO-7 Type M tape media by using LTO-8 drives. The values for Write/read speed, Variable speed recording, Buffer size and Maximum data rate are per drive. The values for Data throughput depend on user environment. |                    |   |                    |   |                    |

## Installation specification

|   |  |
|---|--|
| <b>Dimension (W x D x H) - standard</b>       | 447.5 x 810 x 175,2 mm                       |
| <b>Height Unit standard</b>                   | 4 U  |
| <b>Weight</b>                                 | 28 kg (incl. 4 HH tape drive)                |
| <b>Ethernet Port (Mgmt)</b>                   | 100/10 Mbit/s                                |
| <b>Power voltage</b>                          | 85 - 264 V (+/- 5 %)                         |
| <b>Power frequency</b>                        | 50 / 60 Hz (+/- 5 %)                         |
| <b>Maximum Power Consumption</b>              | 85 - 264 V (+/- 5 %): 5 A (peak at power on) |
| <b>Power phase</b>                            | Single                                       |
| <b>Switched OFF mode</b>                      | 0.5 W  |
| <b>Unit ready (no tape loaded into drive)</b> | 31 W   |
| <b>Write/read data no robotic moves</b>       | 37 W (One HH tape drive)                     |
| <b>Write/read data with robotic moves</b>     | 62 W (One HH tape drive)                     |

## Environment

|                                    |   |
|------------------------------------|---|
| <b>Maximum Heat Generation</b>     | 85 - 264 V (+/- 5 %): 540: kJ/h   |
| <b>Temperature (not operating)</b> | -30 - 60 °C   |
| <b>Humidity (operating)</b>        | 20 - 80 % (relative humidity, non-condensing)   |
| <b>Humidity (not operating)</b>    | 10 - 90 % (non-condensing)  |
| <b>Altitude</b>                    | 3,000 m (10,000 ft.)  |
| <b>Operating environment link</b>  | <a href="http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe">http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe</a> |

**Compliance**

|                                      |   |
|--------------------------------------|---|
| <b>Product safety</b>                | EN 60950-1, IEC 60950-1, UL 60950-1, CSA 60950-1  |
| <b>Electromagnetic Compatibility</b> | EN 55022 Class A, EN 61000-3-3, EN 61000-3-2, ICES 003 Class A, FCC Part-15 Class A, VCCI Class A, AS/NZS CISPR22 Class A, CNS 13438  |
| <b>Electromagnetic Immunity</b>      | EN 55024  |
| <b>CE certification</b>              | 2004/108/EC, 2006/95/EC, 2011/65/EC   |
| <b>Approvals</b>                     | cETLus, EAC   |
| <b>Environmental compliance</b>      | RoHS compliant, WEEE compliant  |
| <b>Compliance notes</b>              | There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons can be applied for on request. |
| <b>Compliance link</b>               | <a href="https://sp.ts.fujitsu.com/sites/certificates">https://sp.ts.fujitsu.com/sites/certificates</a>   |

**Warranty**

|  |  |
|--|--|
| <b>Warranty period</b>                 | 1 year   |
| <b>Warranty type</b>                   | Onsite warranty  |
| <b>Warranty Terms &amp; Conditions</b> | <a href="http://www.fujitsu.com/support">www.fujitsu.com/support</a> |

**Product Support Services - the perfect extension**

|                             |  |
|-----------------------------|--|
| <b>Support Pack Options</b> | Available in major business areas:<br>9x5, Next Business Day Onsite Response Time<br>9x5, 4h Onsite Response Time (depending on country)<br>24x7, 4h Onsite Response Time (depending on country) |
| <b>Recommended Service</b>  | 24x7, Onsite Response Time: 4h   |
| <b>Service Lifecycle</b>    | 5 years after end of product life  |
| <b>Service Weblink</b>      | <a href="http://www.fujitsu.com/fts/services/support">http://www.fujitsu.com/fts/services/support</a>  |

### Fujitsu products, solutions & services

In addition to FUJITSU ETERNUS LT60 S2, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

#### Fujitsu Portfolio

Built on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offerings. This allows customers to select from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

#### Computing Products

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

#### Software

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

### More information

Learn more about Fujitsu ETERNUS LT60 S2, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.  
[www.fujitsu.com/eternus](http://www.fujitsu.com/eternus)

### 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 contribute to the creation of a sustainable environment for future generations through IT. Please find further information at <http://www.fujitsu.com/global/about/environment>



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