

# Data Sheet

## Fujitsu Storage ETERNUS LT140 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 LT140

The Fujitsu Storage ETERNUS LT140 is a cost-effective tape library providing extreme expansion flexibility up to 8400 TB. Starts with a 3U base unit and 20 slots while the pay-as-you-grow concept provides high investment protection that enables to scale and address long-term data storage requirements. Highly automated, simple and remote operation allows ease of use even at remote sites. The standardized LTO technology features high capacity, high speed and low cost that provide hardware-based data encryption offering enhanced security and compliance.



# Features & Benefits

Main Features	Benefits
<p>High Density Tape Automation</p> <ul style="list-style-type: none"><li>■ Ultra-compact product with up to 280 slots in 21 height units</li><li>■ Up to 21 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 and saves time and money</li></ul>
<p>Highly Scalable: Pay-as-you-grow</p> <ul style="list-style-type: none"><li>■ Incremental upgrade with expansion modules</li><li>■ Up to seven modules with up to three drives and up to 40 slots each</li></ul>	<ul style="list-style-type: none"><li>■ High flexibility and easy upgrade of capacity and performance provide high investment protection</li></ul>
<p>Easy Management</p> <ul style="list-style-type: none"><li>■ Remote management utility and user friendly operator panel</li><li>■ Mail slots</li><li>■ Barcode reader</li></ul>	<ul style="list-style-type: none"><li>■ Automatism helps to decrease the error rate of backup processes and to minimize administration efforts</li></ul>
<p>Enhanced Encryption and Key Management</p> <ul style="list-style-type: none"><li>■ Encrypts data autonomously with hardware encryption through LTO drive</li><li>■ Encryption key management via tape library or KMIP</li><li>■ Supports WORM media</li></ul>	<ul style="list-style-type: none"><li>■ Guarantees high data security, thwarts cyber-attacks, and fulfills compliance regulations</li></ul>

# Technical details

## General system information

Minimum configuration	LTO-8, half height	LTO-8, half height	LTO-7, half height	LTO-7, half height
Tape system interface	Fibre Channel	SAS	Fibre Channel	SAS
Number of tape drives			1 - 42 HH	
Number of slots			20 – 560	
Max. data throughput nat./compr.			45.4 / 113.5 TB/hr.	
Total capacity native	240 - 6,720 TB		120 - 3,360 TB	
Total capacity compressed	600 - 16,800 TB		300 - 8,400 TB	
Write/read speed			300 / 750 MB/s	
Variable speed recording uncompr.			100 - 300 MB/s	
Buffer size			1000 MB	
Recording format			Multiple track linear	
Maximum data rate	8 Gbit/s	6 Gbit/s	8 Gbit/s	6 Gbit/s
Media Capacity (uncompr./compr.)	12,000 GB / 30,000 GB		6,000 GB / 15,000 GB	
Backwards compatible	Read/write compatibility with LTO-7		Read/write compatibility with LTO-6 Read compatible with LTO-5	
Tape width			1/2 inch	
Encryption			possible	
Note	<p>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. The compression factor depends on the data structure. Uncompressed at nominal capacity.</p> <p>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.</p> <p>To the extent that specific performance specifications for the product are indicated in the product data sheet, these are usually also dependent on the specific use and workload of the product and may therefore not be reached equally in all application situations. Such performance specifications thus do not represent a specifically agreed characteristic or feature of the product, but only serves as an orientation. The responsibility for a sufficient sizing of the overall system functionality lies solely with the user.</p> <p>If and to the extent a list of components or certain compatibilities are specified in the product data sheet, these component lists and compatibility specifications are exhaustive. Using deviating or other system components and applications together with the product may but does not necessarily have to lead to compatibility problems. A final statement and/or commitment on the compatibility of such deviating or other system components and applications can only be provided after a corresponding verification through a dedicated compatibility testing.</p>			

## Installation specification

Dimension (W x D x H) - standard	475 x 892 x 132 mm
Height Unit standard	3 U
Height Unit Maximum	21 U
Weight	28 kg (incl. 3 HH tape drive) Expansion Configuration: 160 Kg
Ethernet Port (Mgmt)	1000/100/10 Mbit/s
Power voltage	AC 100 - 240 V
Power frequency	50 / 60 Hz
Maximum Power Consumption	AC 100 - 240 V: 1,288W [1,610VA]
Power phase	Single
Switched OFF mode	0.5 W
Unit ready (no tape loaded into drive)	74W (incl. 3 HH tape drive)

## Environment

Maximum Heat Generation	AC 100 - 240 V: 4,636: kJ/h
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**Environment**

Temperature (not operating)	-40 - 60°C
Temperature (operating)	10 - 35 °C
Humidity (operating)	20 - 80 % (relative humidity, non-condensing)
Humidity (not operating)	10 - 80 % (relative humidity, non-condensing)
Altitude	5,000 m
Operating environment	Site Planning Guide
Operating environment link	<a href="https://docs.ts.fujitsu.com/dl.aspx?id=03398560-cb7c-4813-a25c-cd2b75a34bf0">https://docs.ts.fujitsu.com/dl.aspx?id=03398560-cb7c-4813-a25c-cd2b75a34bf0</a>

**Compliance**

Product safety	EN 62368-1, AS/NZS 62368-1, J 62368-1, CAN/CSA C22.2 No. 62368-1-14, UL 62368-1, IEC 62368-1, IEC 60950-1
Electromagnetic Compatibility	EN55032 Class A, EN 61000-3-3, EN 61000-3-2, ICES 003 Class A, FCC Part-15 Class A, VCCI Class A, AS/NZS CISPR 32 class A, CNS 13438
Electromagnetic Immunity	EN 55024
CE certification	2014/30/EU, 2014/35/EU, 2011/65/EU
Approvals	BSMI, UKCA, CB, CE, CSA, FCC, RCM, UL, VCCI
Environmental compliance	RoHS compliant, WEEE compliant
Compliance notes	There is general compliance with the safety/EMC 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.
Compliance link	<a href="https://sp.ts.fujitsu.com/sites/certificates">https://sp.ts.fujitsu.com/sites/certificates</a>

**Warranty**

Warranty period	1 year
Warranty type	Onsite warranty
Warranty Terms & Conditions	<a href="http://www.fujitsu.com/warranty">www.fujitsu.com/warranty</a>

**Product Support - the perfect extension**

Support Pack Options	Available in major metropolitan areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time (depending on country) 24x7, 4h Onsite Response Time (depending on country)
Recommended Service	24x7, Onsite Response Time: 4h
Service Lifecycle	at least 5 years after shipment, for details see <a href="https://support.ts.fujitsu.com/">https://support.ts.fujitsu.com/</a>
Service Weblink	<a href="http://www.fujitsu.com/emeia/products/product-support-services/">www.fujitsu.com/emeia/products/product-support-services/</a>

### Fujitsu products, solutions & services

In addition to Fujitsu ETERNUS LT140, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

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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

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### More information

Learn more about Fujitsu ETERNUS LT140, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.

<https://www.fujitsu.com/global/products/computing/storage/tape/eternus-lt/lt140/index.html>

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