

# Data Sheet

## Fujitsu Storage ETERNUS LT20 S2 Tape System

Economy System Ideal for Small Businesses and Branch Offices

### 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 LT20 S2

The Fujitsu Storage ETERNUS LT20 S2 is a highly reliable and cost effective tape library ideal for small businesses and branch offices.

It combines exceptional storage density and up to 360 TB of compressed capacity in a compact 1U form factor.

The solution meets a wide range of demanding data storage requirements including long-term archiving, disaster recovery and unattended backup. The ETERNUS LT20 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 LT20 S2 provides 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 eight slots and one tape drive in a single height unit</li><li>■ Half Height LTO drive 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>Hardware Encryption and WORM media</p> <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>■ Guarantees high data security, thwarts cyber-attacks, and fulfills compliance regulations</li></ul>
<p>Easy Management</p> <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 helps to decrease the error rate of backup processes and to minimize administration efforts</li></ul>

# Technical details

## General system information

Minimum configuration	LTO-9, half height	LTO-9, half height	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	Fibre Channel	SAS
Number of tape drives	1 HH					
Number of slots	8					
Number of mail slots	1					
Max. data throughput nat./compr.	1.1 / 2.7 TB/hr.					
Total capacity native	144 TB		96 TB		48 TB	
Total capacity compressed	360 TB		240 TB		120 TB	
Write/read speed	300 / 750 MB/s	300 / 750 MB/s	300 / 750 MB/s	300 / 600 MB/s	300 / 750 MB/s	300 / 600 MB/s
Variable speed recording uncompr.	180 - 300 MB/s		110 - 300 MB/s		100 - 300 MB/s	
Buffer size	1000 MB					
Recording format	Multiple track linear					
Maximum data rate	8 Gbit/s	12 Gbit/s	8 Gbit/s	6 Gbit/s	8 Gbit/s	6 Gbit/s
Media Capacity (uncompr./compr.)	18,000 GB / 45,000 GB		12,000 GB / 30,000 GB		6,000 GB / 15,000 GB	
Backwards compatible	Read/write compatibility with LTO-8		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>To use an unused LTO Ultrium 9 data cartridge for the first time, initialize the LTO Ultrium 9 data cartridge in a tape library that is equipped with an LTO Ultrium 9 tape drive. Initialization of an LTO Ultrium 9 tape cartridge takes up to two hours, use the initialized LTO Ultrium 9 data cartridges for operations.</p> <p>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>
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## Installation specification

19" rackmount	Yes
Dimension - per rack (W x D x H)	447.5 x 805 x 43.8 mm 17.6 x 31.7 x 1.7 inch
Height Unit standard	1 U
Weight	14 kg (incl. tape drive)
Ethernet Port (Mgmt)	100/10 Mbit/s
Power voltage	85 - 264 V (+/- 5 %)
Power frequency	50 / 60 Hz (+/- 5 %)
Maximum Power Consumption	85 - 264 V (+/- 5 %): 2 A (peak at power on)
Power phase	Single
Switched OFF mode	0.5 W

**Installation specification**

Unit ready (no tape loaded into drive)	17 W
Write/read data no robotic moves	40 W
Write/read data with robotic moves	48 W

**Environment**

Maximum Heat Generation	85 - 264 V (+/- 5 %): 180: kJ/h
Temperature (not operating)	-40 - 60°C
Temperature (operating)	15 - 25 °C
Humidity (operating)	20 - 50 % (relative humidity, non-condensing)
Humidity (not operating)	20 - 80 % (relative humidity, non-condensing)
Altitude	3,000 m (10,000 ft.)
Operating environment	Site Planning Guide
Operating environment link	<a href="https://docs.ts.fujitsu.com/dl.aspx?id=dc04012c-3e11-4828-98ba-dece4946ca0a">https://docs.ts.fujitsu.com/dl.aspx?id=dc04012c-3e11-4828-98ba-dece4946ca0a</a>

**Compliance**

Product safety	IEC 62368-1, EN 62368-1, UL/CSA 62368-1, IEC 60950-1
Electromagnetic Compatibility	EN 55032 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, CISPR 35, EN 55035
CE certification	2014/30/EU, 2014/35/EU, 2011/65/EU
Approvals	cETLus, EAC, CB, CE, UKCA, BSMI, FCC, RCM, 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>

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In addition to Fujitsu ETERNUS LT20 S2, 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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More information

Learn more about Fujitsu ETERNUS LT20 S2, 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/lt20/index.html>

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Please find further information at <http://www.fujitsu.com/global/about/environment>



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