FUJITSU

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 25,200 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.

https://www.fujitsu.com/global/products/computing/storage/tape/eternus-lt/lt140-42u/index.html

Features & Benefits

Main Features	Benefits
High Density Tape Automation ■ Ultra-compact product with up to 560 slots in 42 height units ■ Up to 42 LTO drives with SAS or Fibre Channel interface	■ Ensures user-friendly and secure backup and archiving and saves time and money
Highly Scalable: Pay-as-you-grow ■ Incremental upgrade with expansion modules ■ Up to fourteen modules with up to three drives and up to 40 slots each	■ High flexibility and easy upgrade of capacity and performance provide high investment protection
Easy Management ■ Remote management utility and user friendly operator panel ■ Mail slots ■ Barcode reader	■ Automatism helps to decrease the error rate of backup processes and to minimize administration efforts
Enhanced Encryption and Key Management ■ Encrypts data autonomously with hardware encryption through LTO drive ■ Encryption key management via tape library or KMIP ■ Supports WORM media	■ Guarantees high data security, thwarts cyber-attacks, and fulfills compliance regulations

Technical details

General system information

	LTO-9, full height	LTO-9, half height	LTO-9, half height	LTO-8, half height	LTO-8, half height	LTO-7, half height	LTO-7, half height
Minimum configuration	LTO-9, full height	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	Fibre Channel	SAS	Fibre Channel	SAS	Fibre Channel	SAS
Number of tape drives	1 - 14 FH / 1 - 42 HH						
Number of slots	20 – 560						
Max. data throughput nat./compr.	20.2 / 50.4 TB/hr.	45.4 / 113.4 TB/hr.		45.4 / 113.5 TB/hr.			
Total capacity native	360 - 10,080 TB			240 - 6,720 TB		120 - 3,360 TB	
Total capacity compressed	900 - 25,200 TB			600 - 16,800 TB		300 - 8,400 TB	
Write/read speed	400 / 750 MB/s	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 - 400 MB/s	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	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.						
	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. Iinitialization of an LTO Ultrium 9 tape cartridge takes up to two hours, use the initialized LTO Ultrium 9 data cartridges for operations. 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.						
	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.						
	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.						

Installation specification

Dimension (W x D x H) - standard	475 x 892 x 132 mm
Height Unit standard	3 U
Height Unit Maximum	42 U
Weight	28 kg (incl. 3 HH tape drive) Expansion Configuration: 314 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
Temperature (not operating)	-40 - 60℃
Temperature (operating)	15 - 25 ℃
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	https://docs.ts.fujitsu.com/dl.aspx?id=03398560-cb7c-4813-a25c-cd2b75a34bf0

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	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	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	https://sp.ts.fujitsu.com/sites/certificates

Warranty

Warranty period	1 year
Warranty type	Onsite warranty
Warranty Terms & Conditions	www.fujitsu.com/warranty

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 https://support.ts.fujitsu.com/
Service Weblink	www.fujitsu.com/emeia/products/product-support-services/

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.

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/

Software
www.fujitsu.com/software/

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/lt140-42u/index.html

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

Disclaimer

Please note that the data sheet reflects the technical specification with the maximum selection of components for the named system and not the detailed scope of delivery. The scope of delivery is defined by the selection of components at the time of ordering. The product was developed for normal business use.
Technical data is subject to modification and delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective owner, the use of which by third parties for their own purposes may infringe the rights of such owner.

https://www.fujitsu.com/global/products/computing/storage/tape/eternus-lt/lt140-42u/index.html