

Data Sheet

Fujitsu ETERNUS LT60 S2

The Scalable Mid-range Tape System for High Capacity Requirements

ETERNUS LT TAPE LIBRARY SYSTEM

The affordable ETERNUS LT tape systems offer impressive scalability and reliability. Highly automated, simple and remote operation enables usage without any demand for local expert skills. ETERNUS LT systems feature LTO technology and are certified for market-leading backup and archiving software. Connectivity is given via the SAS or FC interface.

ETERNUS LT60 S2

The ETERNUS LT60 S2 addresses customers with high capacity requirements. It combines exceptional storage density and up to 300 TB of compressed capacity in a compact 4U form factor, giving room for unpredictable data growth. The system comes with standardized LTO technology providing high speed and low media costs. The ETERNUS LT60 offers comprehensive flexibility as it has up to four drives for redundancy and partitioning. ETERNUS LT60 can be split into two "virtual libraries" serving different application environments in parallel. This provides maximum efficiency and cost-effectiveness. The slot upgrade option gives customers a start with 12 slots and upgrades to 48 slots. The slot upgrade option means that customers can pay as they grow and remain flexible as they can even mix different LTO generations within one system. One advanced feature available with the ETERNUS LT60 is the redundant power supply that ensures uninterrupted operation should there be a power failure.



Features & Benefits

Main Features	Benefits
<p>Latest technology</p> <ul style="list-style-type: none"> ■ Upgradeability from 24 to 36 or 48 slots via software license ■ LTO-4 / LTO-5 / LTO-6 HH SAS technology ■ LTO-4 / LTO-5 / LTO-6 HH drive with optional Fibre Channel interface ■ Partitioning via license key <p>Many extras at no additional cost</p> <ul style="list-style-type: none"> ■ Mail slot ■ Barcode reader ■ Remote management utility and user friendly operator panel 	<ul style="list-style-type: none"> ■ Easy upgrade to the needed storage capacity ■ High investment protection ■ SAS interface meets both enterprise and midrange/nearline storage requirements at relatively low costs, providing users and integrators with flexible storage architectures ■ High data throughput of up to 8 Gb/s ■ Smaller backup window is needed ■ Makes it easier to separate different LTO generations, avoids undesired incompatible media loads ■ Build up two independent libraries out of one system ■ Easy input and output of up to three cartridges ■ Short initialization time thanks to slot barcodes, also with unoccupied data slots ■ Easy administration, enables configuration and diagnostic ■ Automatism help to decrease the error rate of backup processes

Technical details

General system information

Basic configuration	LTO-6, half height	LTO-6, half height	LTO-5, full height	LTO-5, half height	LTO-5, half height	LTO-4, half height	LTO-4, half height
Tape system interface	Fibre Channel	SAS	Fibre Channel	Fibre Channel	SAS	Fibre Channel	SAS
Number of tape drives	2 FH / 4 HH						
Number of slots	24 - 48						
Max. data throughput nat./compr.	576 / 1440 GB/hr			504 / 1008 GB/hr		288 / 576 GB/hr	
Total capacity native	60 - 120 TB			36 - 72 TB		19.2 - 38.4 TB	
Total capacity compressed	150 - 300 TB			72 - 144 TB		38.4 - 76.8 TB	
Write/read speed	160 / 400 MB/s			140 / 280 MB/s		80 / 160 MB/s	
Variable speed recording uncompr.	53 - 160 MB/s			44 - 140 MB/s		33 - 80 MB/s	
Buffer size	512 MB			256 MB		128 MB	
Recording format	Multiple track linear						
Maximum data rate	8 Gbit/s	6 Gbit/s	8 Gbit/s		6 Gbit/s	4 Gbit/s	3 Gbit/s
Media Capacity (uncompr./compr.)	2500 GB / 6250 GB			1500 GB / 3000 GB		800 GB / 1600 GB	
Backwards compatible	Read/write compatibility with LTO-5 Read compatible with LTO-4		Read/write compatibility with LTO-4 Read compatible with LTO-3			Read/write compatibility with LTO-3 Read compatible with LTO-2	
Tape width	1/2 inch						
Encryption	possible						
Compression 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 (LTO-4, LTO-5) or 2.5 (LTO-6). The compression factor depends on the data structure. Uncompressed at nominal capacity.						

Installation specification

Dimension (W x D x H) - standard	447.5 x 810 x 175,2 mm
Height unit standard	4 U
Weight	28 kg (incl. 4 HH tape drive) / 26 kg (incl. 2 FH tape drive)
Power voltage	85 - 264 V (+/- 5 %)
Power frequency	50 / 60 Hz (+/- 5 %)
Maximum Power Consumption	85 - 264 V (+/- 5 %): 5 A (peak at power on)
Power phase	Single
Switched OFF mode	0.5 W
Unit ready (no tape loaded into drive)	31 W
Write/read data no robotic moves	37 W (One HH tape drive)
Write/read data with robotic moves	62 W (One HH tape drive)
Notes	One HH tape drive increases the AC power consumption by 11 W (drive ready, no tape loaded) and by 27 W (for write/read data to media).

Environmental

Maximum Heat Generation	85 - 264 V (+/- 5 %): 540: kJ/h
Temperature (operating)	10 - 35 °C
Temperature (not operating)	-30 - 60 °C
Humidity (operating)	20 - 80 % (relative humidity, non-condensing)
Humidity (not operating)	10 - 90 % (non-condensing)
Operating environment Link	http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe

Compliance

Product safety	EN 60950-1, IEC 60950-1, UL 60950-1, CSA 60950-1
-----------------------	--

Compliance

Electromagnetic Compatibility	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
Electromagnetic Immunity	EN 55024
CE certification	2004/108/EC, 2006/95/EC, 2011/65/EC
Approvals	cETLus, GOST
Environmental compliance	RoHS compliant, WEEE compliant
Compliance notes	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.
Compliance link	http://globalsp.ts.fujitsu.com/sites/certificates

Warranty

Standard Warranty	1 year
Service level	Onsite Service (depending on country)
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty/
Maintenance and Support Services - the perfect extension	
Recommended Service	24x7, Onsite Response Time: 4h - For locations outside of EMEA please contact your local Fujitsu partner.
Service Weblink	http://www.fujitsu.com/fts/services/support

Fujitsu OPTIMIZATION 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

Build 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 offering. This allows customers to leverage 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/services/computing/

Software

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/fts/eternus_lt

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>



Copyrights

All rights reserved, including intellectual property rights. Changes to technical data reserved. 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 manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner.

For further information see www.fujitsu.com/terms

Copyright © Fujitsu Technology Solutions

Disclaimer

Technical data are 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 manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner.

For further information see: <http://www.fujitsu.com/global/terms/>

Contact

FUJITSU Technology Solutions

Email: storage-pm@ts.fujitsu.com

Website: www.fujitsu.com/fts/storage

2013-11-21 WW-EN