

# DATASHEET

## FUJITSU ETERNUS LT20

### RELIABLE TAPE SOLUTION

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The ETERNUS LT20 from Fujitsu is a highly reliable tape library that is optimized to dramatically reduce the risk of manual errors in remote backups.

The system is equipped with LTO technology, the synonym for high speed and very low media costs. Depending on your individual requirements you can either order it with an LTO-3, LTO-4 or LTO-5 half height drive, and can connect it to the server via the SAS (Serial Attached SCSI) or Fibre Channel interface.

LTO half height drives combine storage density and tape library features into a compact 1U form factor and offers up to 24 TB compressed storage capacity when equipped with eight LTO-5 cartridges.

Since the ETERNUS LT20 automatically moves the cartridges from the slots to the drive for backup and returns them after backup is complete, you do not have to worry about changing cartridges manually any more.

The ETERNUS LT20 uses the most current, future-proof standard for high data transfer rates and uninterruptible transmission.

And like all products from Fujitsu designed for small and medium sized businesses, the ETERNUS LT20 is reliable, easy to use and very affordable.



# FEATURES AND BENEFITS

MAIN FEATURES	BENEFITS
<ul style="list-style-type: none"> <li>■ Ultra-compact product with up to 8 tape slots and one LTO drive in a single height unit</li> </ul>	<ul style="list-style-type: none"> <li>■ Up to 24 TB (compressed LTO-5) in 1 U</li> <li>■ Backup of up to 1000 GB (compressed) data in one hour</li> </ul>
<ul style="list-style-type: none"> <li>■ LTO-3 / LTO-4 / LTO-5 HH SAS technology</li> </ul>	<ul style="list-style-type: none"> <li>■ Future-proof, fault-tolerant, robust</li> <li>■ High data throughput</li> </ul>
<ul style="list-style-type: none"> <li>■ LTO-4 / LTO-5 HH drive with optional Fibre Channel interface</li> </ul>	<ul style="list-style-type: none"> <li>■ Cheaper than full height drives</li> </ul>
<p><b>MANY EXTRAS AT NO EXTRA COST:</b></p>	
<ul style="list-style-type: none"> <li>■ Mail slot</li> </ul>	<ul style="list-style-type: none"> <li>■ Easy input and output of individual cartridge</li> </ul>
<ul style="list-style-type: none"> <li>■ Barcode reader</li> </ul>	<ul style="list-style-type: none"> <li>■ Simplified media management</li> <li>■ Shorter restoration times</li> </ul>
<ul style="list-style-type: none"> <li>■ Remote management utility and user friendly operator panel</li> </ul>	<ul style="list-style-type: none"> <li>■ Easy administration, enables configuration and diagnostic</li> <li>■ Automatism help to decrease the error rate of backup processes</li> <li>■ Ethernet network for Firmware upgrades, statistics</li> </ul>



# TECHNICAL DETAILS

<b>GENERAL SPECIFICATION</b>			
Type	LTO-3 HH	LTO-4 HH	LTO-5 HH
Interface	SAS	SAS / Fibre Channel	SAS / Fibre Channel
Total capacity native	3.2 TB	6.4 TB	12 TB
Total capacity compressed*	6.4 TB	12.8 TB	24 TB
No. of slots	8	8	8
No. of MTC drives	1	1	1
Max. data throughput native/compressed*	216 / 432 GB/hr	288 / 576 GB/hr	504 / 1008 GB/hr
<b>DRIVES</b>			
Drive type - HH (half height)	LTO-3	LTO-4	LTO-5
Write/read speed			
at write/read head*	60 / 120 MB/s	80 / 160 MB/s	140 / 280 MB/s
Variable speed recording**	27 - 60 MB/s	33 - 180 MB/s	40 - 140 MB/s
Cartridge loading time	< 19 s	< 19 s	< 19 s
Buffer size	64 MB	128 MB	256 MB
Data compression factor*	2	2	2
Recording format	Multiple Track linear	Multiple Track linear	Multiple Track linear
Maximum data rate (interface)	3 Gbit/s	3 Gbit/s / 4 Gbit/s	6 Gbit/s / 8 Gbit/s
<b>PROCESSES DATA VOLUMES</b>			
LTO-1	Read	-	-
LTO-2	Write / Read	Read	-
LTO-3	Write / Read	Write / Read	Read
LTO-3 WORM	Write Once / Read Many	Write Once / Read Multiple	Read
LTO-4	-	Write / Read	Write / Read
LTO-4 WORM	-	Write Once / Read Multiple	Write Once / Read Multiple
LTO-5	-	-	Write / Read
LTO-5 WORM	-	-	Write Once / Read Multiple
<b>CARTRIDGE DATA VOLUMES</b>			
LTO-1 (native / compressed*)	100 / 200 GB	-	-
LTO-2 (native / compressed*)	200 / 400 GB	200 / 400 GB	-
LTO-3 (native / compressed*)	400 / 800 GB	400 / 800 GB	400 / 800 GB
LTO-3 WORM (native / compressed*)	-	400 / 800 GB	400 / 800 GB
LTO-4 (native / compressed*)	-	800 / 1600 GB	800 / 1600 GB
LTO-4 WORM (native / compressed*)	-	800 / 1600 GB	800 / 1600 GB
LTO-5 (native / compressed*)	-	-	1500 / 3000 GB
LTO-5 WORM (native / compressed*)	-	-	1500 / 3000 GB
Bandwidth		½ inch	
*Note	As used for storage capacity, one gigabyte (GB) = one billion bytes, and one terabyte (TB) = one trillion bytes. Assuming a compression factor of 2 (The compression factor depends on the data structure and is typically 2 or less.)		
**Note	Uncompressed at nominal capacity.		
<b>DIMENSIONS / WEIGHT</b>			
Height x width x depth	43,75 x 447,5 x 805 mm		
Rack installation height	1 U		
Max. weight, w/o cartridges	14 kg		

**ELECTRICAL SPECIFICATIONS**

Power voltage	85 - 264 V (± 5%)
Power frequency	50/60 Hz (± 5%)
<b>Typical power consumption (Watt)</b>	
Switched OFF mode	3.5 W
Unit ready (no tape loaded into drive)	32 W
Write/read data no robotic moves	48 W
Write/read data with robotic moves	55 W
Note	LTO-5 drive consumes almost 36% less in standby mode and 10% less in operation mode

**CLIMATIC CONDITIONS**

<b>Operating range</b>	
Temperature	10 - 35 °C
Rel. humidity	20 - 80 %

**COMPLIANCE**

Product safety	EN55022Class A, EN55024, EN61000-3-2, EN61000-3-3
Electromagnetic compatibility	CE-Conformity, CB-Certificate, ETLc/us
Environmental compliance	RoHS compliant, WEEE compliant

**MAINTENANCE AND SUPPORT SERVICES.**

Recommended service level	24x7 Onsite Service with 4h Response Time
Available service level	<a href="http://ts.fujitsu.com/services/maintenance_support/hardware_services.html">ts.fujitsu.com/services/maintenance_support/hardware_services.html</a>

**Important note**

For use with the MTC changers, only cartridges certified by Fujitsu with the label "Fujitsu - Preferred Quality" are permitted.  
 This product and the accessories (components/materials) released for it by Fujitsu comply with the protection targets of Emission Class A. In special cases, measures for reducing the electromagnetic interference on other devices may be necessary.

**FUJITSU PLATFORM SOLUTIONS**

In addition to Fujitsu ETERNUS LT20, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

**Dynamic Infrastructures**

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as-a-Service.

How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

**Computing Products**

<http://fujitsu.com/global/services/computing/>

**Software**

<http://fujitsu.com/software/>

**MORE INFORMATION**

Learn more about Fujitsu ETERNUS LT20, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.  
[http://ts.fujitsu.com/eternus\\_lt](http://ts.fujitsu.com/eternus_lt)

**FUJITSU GREEN POLICY INNOVATION**

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