

Spectra TFinity ExaScale



Unrivalled capacity, density & performance

Spectra TFinity redefines data storage with unparalleled scalability, accommodating various drive technologies. Enhanced by advanced BlueScale library management, it ensures seamless operations, robust security and redundancy. This high-capacity, high-performance library addresses massive data growth with unparalleled efficiency and reliability.



Tape Drive Versatility



Intermix LTO, IBM TS11XX, and Oracle T10000 tape drives and media within a single library to enable flexible migration options between tape drive types and generations for greater investment protection.

Unmatched Scalability



Take advantage of unmatched scalability, supporting up to 6.4EB¹ with TS1170 drives and up to 2.5EB¹ with LTO-9 tape drives. The TFinity adapts to diverse storage demands, ensuring efficient data management.

Operational Excellence



Elevate operations with BlueScale library management software, featuring robust capabilities in security, monitoring, redundancy, reporting, library partitioning, and on-demand capacity.

Data Resiliency



Ensure data integrity with Spectra Certified Media: Media Lifecycle Management minimizes errors, Library Lifecycle Management prevents failures, and Data Integrity Verification ensures reliability.

Efficient Operations with Dual Robotics

Simultaneous Operations: Performs tasks concurrently, such as loading and unloading tapes, accessing multiple media slots and managing multiple tape drives.

Increased Throughput: Contributes to higher data transfer rates and reduces access times, optimizing the overall throughput of the tape library.

Automated Failover: Enhances system resiliency and minimizes downtime by redirecting tasks to the remaining functional robotic arm in case of failure.

Load Balancing: Ensures that tasks are evenly distributed between the robotic arms, preventing bottlenecks and maximizing the utilization of resources.

Increased Throughput: Achieves higher data transfer rates and enhanced overall throughput by optimizing the distribution of tasks across the two robotic arms.



TFinity Specifications

Library Specifications

Library	TFinity ExaScale (3-frame configuration)				TFinity ExaScale (45-frame configuration)			
	LTO-9		TS1170		LTO-9		TS1170	
Max Media/Slot Count	1,800	3-frames	1,350	3-frames	56,400	45-frames	42,930	45-frames
Max Native Capacity	32.4PB		67.5PB		1EB		2.2EB	
Max Compressed Capacity¹	81PB		202.5PB		2.5EB		6.4EB	
Max Drives²	24		24		144		144	
Max Native Throughput (TB/hr.)	34.6		34.6		207.4		207.4	
Max Compressed Throughput (TB/hr.)	77.8		77.8		466.6		466.6	
Max SLS Partitions	16		16		16		16	
Tape Drive Supported	LTO, IBM® TS11XX Oracle® T1000				LTO, IBM® TS11XX Oracle® T1000			
Dual Robotics	Yes				Yes			

Drive Specifications

All LTO Drives, TS1150, TS1155, and TS1160					
Mode	Dry-bulb Temperature	Maximum Temperature Rate of Change	Relative Humidity (non-condensing)	Maximum Humidity Rate of Change	Altitude (max)
Allowable Environment	16°C to 32°C (60°F to 90°F)	5°C per hour 9°F per hour	20% to 80% 22°C dew point max	5% per hour with no condensation	3048 m (10,000 ft)
Recommended Environment	16°C to 25°C (60°F to 77°F)	5°C per hour 9°F per hour	20% to 50% 22°C dew point max	5% per hour with no condensation	3048 m (10,000 ft)

TS1170 Drives					
Mode	Dry-bulb Temperature	Maximum Temperature Rate of Change	Relative Humidity (non-condensing)	Maximum Humidity Rate of Change	Altitude (max)
Recommended and Allowable Environment	16°C to 25°C (60°F to 77°F)	5°C per hour 9°F per hour	20% to 50% 22°C dew point max	5% per hour with no condensation	3048 m (10,000 ft)

1. LTO compression ratio is 2.5:1. TS1170 compression ratio is 3:1.
2. Drive types are full height unless noted.