

# IBM TS4500 Tape Library

**TABLE 1. IBM TS4500 Tape Library with IBM 1100 tape technology**

	Base Frame	Drive-capable and Storage expansion frame	Storage-only expansion frame	Total Support per library
Frame Definition	L25	L25	L25	
Input/output (I/O) slots	32 slots	32 slots optional		
Tape Drive types	TS1160, TS1155, TS1150, and TS1140			
Tape Cartridges type	3592 cartridges			
Compression Rate	3:1 compression			
Number of frames per library	One base frame	One base frame, up to 17 expansion frames with maximum of 7 Dx5 frames		18 frames
Number of drives	Up to 12	Up to 16 per frame		Up to 128 per library
Number of tape cartridges	Up to 660 (up to 550 in frame 1)	Up to 740 (up to 590 in frame 1)	Up to 1,000 (up to 798 in frame 1)	Up to 17,550
Capacity* with 3592 advanced cartridges	FRAME 1: Up to 11 PB native / up to 33 PB compressed ANY FRAME: Up to 13 PB native / up to 39 PB compressed	Up to 351 PB native / 1.05 EB compressed per library		
Operating systems support	<a href="#">See the IBM System Storage Interoperation Center</a>			

**TABLE 2. IBM TS4500 Tape Library with IBM LTO tape technology**

	Base Frame	Drive-capable and Storage expansion frame	Storage-only expansion	Total Supported per library
Frame Definition	L55	D55	S55	
Input/output (I/O) slots	36 slots	36 slots optional		
Tape Drive types	LTO Ultrium 8, 7, and 6 tape drives			
Tape Cartridges type	LTO Ultrium 8, and 7			
Compression Rate	2.5:1 compression			
Number of frames per library	One base frame	One base frame, up to 17 expansion frames with maximum of 7 Dx5 frames		18 frames
Number of drives	Up to 12 in frame 1	Up to 12 on frame 1 / Up to 16 per frame		Up to 128 per library
Number of tape cartridges	Up to 882 (up to 730 in frame 1)	Up to 970 (up to 774 in frame 1)	Up to 1,320 (up to 1,054 in frame 1)	Up to 23,170
Capacity* with LTO 8 cartridges	FRAME 1: Up to 8 PB native / up to 21 PB compressed ANY FRAME: Up to 10 PB native / up to 26 PB compressed	Up to 278 PB native / up to 695 PB compressed per library		
Operating systems support	<a href="#">See the IBM System Storage Interoperation Center</a>			

**TABLE 3. Physical characteristics of Top Rack frame models**

Physical Characteristics	3584 Model TR2	3584 Model TR1
EIA Space	5U	10U
Height	266.6 mm (10.5 in)	520 mm (20.44 in)
Width without covers <sup>†</sup>	725 mm (28.5 in)	725 mm (28.5 in)
Width with covers	782 mm (30.8 in)	782 mm (30.8 in)
Depth (including front and rear doors)	1212 mm (47.72 in)	1212 mm (47.72 in)
Weight of Top Rack Empty <sup>‡, §</sup>	17.5 kg (38.5 lb)	24.5 kg (54 lb)
Weight of Top Rack with 2 Side-Panels, Front and Rear Doors	32.4 kg (71.5 lb)	

\* Capacity depends on drives installed, number and type of cartridges used, and compression ratio achieved. Listed capacity is physical. Usable capacity may be less.

† Frame width only. Extra inter-frame spacing of 30 mm (1.2 in.) is required.

‡ A TR1 top rack can optionally be installed on any TS4500 frame. Side panels and PDUs are also optional. Each side panel adds 6.8 kg (15 lb). Each PDU adds 4.5 kg (10 lb).

§ A TR2 top rack can optionally be installed on any TS4500 frame. Side panels, PDUs, Front Doors, and Rear Doors are also optional. Each side panel adds 3.6 kg (8 lb). Each PDU adds 4.1 kg (9 lb). Each door adds 3.2 kg (7 lb).

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