



Tandberg
SLR140

The newest member of the SLR tape drive family

The newest member of the industries most reliable tape drive, the new Tandberg SLR140 5.25 inch half height tape drive, offers high capacity and performance at an extremely affordable price.

Tandberg SLR140 is the next generation SLR tape drive based on the highly reliable SLR technology platform that has gained industry recognition for its quality and reliability. The standard 5.25-inch half height form-factor allows easy installation and integration into most PC servers and workstations.

Tandberg SLR140 is backwards compatible to lower capacity tape drives such as SLR100, SLR75, SLR60, SLR50, SLR40 and SLR7 allowing current and new SLR customers to migrate from lower to higher performance and capacity while protecting their investments.

The Tandberg SLR140 has many features that are only found in more expensive tape drives such as "Auto Sense" which allows the SLR140 tape drive to receive data from the host at variable transfer rates for optimal performance on slower buses. The Tandberg SLR140 also has in-line data compression which provides an effective compression method that maximises system performance. Tandberg SLR140 also has a media management utility built into the drive's firmware that monitors the drive and media performance and provides the user with value preventive maintenance information.

The Tandberg SLR140 tape drive is available in internal and external configurations and also as complete turnkey solutions, which include

award-winning server Computer Associates BrightStor ARCserve application software for Windows Server and Novell Netware platforms. The Tandberg SLR tape drive family protects your tape storage investments by offering one of the most reliable, scalable and backwards compatible tape drive technologies available.

* Assuming 2:1 data compression.



Special functions

- Up to 140 GB* capacity with 43 GB*/h transfer rate
- Ultra 2 LVD/SE interface
- "Auto Sense" transfer rate and in-line data compression for optimum performance
- Backwards compatible to SLR100, 75, 60, 50, 40, 7
- Scalable to future SLR tape drives
- TapeAlert™ and Media Management preventive maintenance feature
- Broad platform, operating system and 3rd party tape application support



Specification

Tandberg SLR140

Drive		Tandberg SLR140
Capacity (formatted)	Native/Compressed*	70 /140* GB
Buffer Size:		8MB
Data Transfer Rate	Native Sustained:	6MB/s
	Compressed Sustained*:	12MB/s (43GB*/h)
	Burst:	40MB/s
File Access Time:	Typical:	99 sec
Media Load Time:	Typical:	< 30 sec
System Interface:		SCSI-3, Multimode Wide Ultra (SE)/Ultra2 (LVD) ¹
Tape Alert Compliant:		Yes
Drive Warranty:		3 years Factory

Format, Compatibility and Media

Recording Format:	ALRF-6 (Advanced Linear Recording Format)
Encoding/Decoding:	VR ² RLL
Number of Tracks:	192 data tracks (+24 servo tracks)
Written bit density:	186 kfc/i
Write compatibility:	SLR140, SLR100, SLR75, SLR60, SLR50, SLR40
Read compatibility:	SLR140, SLR100, SLR75, SLR60, SLR50, SLR40, SLR7
Media:	SLRtape140
Media Data Retention (Archival Life):	> 20 years

Reliability and Error Correction

Hard Error Rate:	< 10 ⁻¹⁷
Reed Solomon ECC:	Level 10
Mean Time Between Failure (MTBF): Hours:	300 000
Mean Time To Repair (MTTR):	< 30 min

Tape Motion

Tape speed:	Read/Write:	86 ips or 70 ips, auto selected depending on tape format and host transfer rate
Wind/Rewind:		105 ips
Start/Stop Time (typical at 86.3 ips):		380 ms / 250 ms

Dimensions

	Internal Drive	External Drive
Form Factor	- 5.25-inch half height (HH) -	
Height/Width/Depth:	H: 1.732 in (44mm), W: 5.905 in (150 mm), D: 8.583 in (218 mm)	H: 2.5 in (64.5 mm), W: 8.1 in (205 mm), D: 1 0.5 in (267 mm)
	Weight: 2.4 lb (1.1 kg)	Weight: 5.7 lb (2.6 kg)

Power Requirements (Typical)

Power Consumption:	+5Vdc excl. bus terminator 1.5/ 1.2A (sleep mode)	N/A
	+12Vdc motor not running 100 mA	N/A
	+12Vdc motor running 1.3A	N/A
Standby:	7.2W /Running: 23.1 W	N/A
	N/A	100-240Vac/0.6-0.3A, 50-60 Hz
Voltage Variations:	+5Vdc +/-5% including 125mV max. ripple	N/A
	+12Vdc +/- 10% including 200 mV max. ptp ripple	N/A

Environmental Specifications

Temperature: Operating (Storage):	+5°C to +40°C /41°F to +104°F ² (-30°C to +60°C/-22°F to +140°F)
Relative Humidity: Operating (Transport):	20 to 80% (5 to 95%)
Maximum Wet Bulb Temperature:	+26°C /+79°F
Altitude - Feet (m):	Operating: 13,000 Feet (4,000 m); Transport: 40,000 Feet (12,200m)

Regulatory Agency Approvals

UL 1950, CAN/CSA-C22.2 No 950, EN 60950, IEC 60950, AS/NZS 3548, EN 55022 (CISPR22);
FCC part 15 Class B, ICES-003, VCCI, EN55024, CE, C-Tick

* 2:1 Hardware Data Compression, ¹Burst transfer rate is limited to 40 MB/s (20 megatransfer), ²Internal drive ability to meet specifications is dependent on installation configuration



TM

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