



## The Next Generation in Tape Libraries

## Specifications

TLS-4000 Series Tape Libraries combined with Advanced Intelligent (AIT) tape drives provide unsurpassed performance, capacity and value for all unattended backup requirements. Developed by Sony, AIT has been adopted by OEMs and integrators worldwide for distributed database backup and archive, and video and image storage applications.

### Features:

- All Lead screw-driven design
- All Tape Drive Mounting Slots Pre-wired
- Self-calibrating, Digital Servo Control System
- Lockable Front Door for Media Security
- Inventory Sentry Minimizes Offline Time
- VIOP: Variable I/O Port
- 80-Character, Back-lit Display
- Easy Setup, Configuration, Operation and Diagnostics
- Built-in Emulations
- Host-controlled Security Lockout
- Downloadable Firmware Update
- Choice of Beige or Black Chassis

### Additional Options:

- Q-Link Remote Library Manager
- Fibre Channel Interface Option
- Rack Mount Assemblies
- WORM Tape (AIT-3 or 4)
- Barcode Reader (4212, 4222)
- On-site Service



**Black Chassis Optional**

Twelve TLS-Series models provide scalable capacities from 400 gigabytes to over 156 terabytes. Advanced design utilizes proven robotic technologies for extremely reliable operation and years of trouble-free service. The TLS-Series incorporates small footprints and powerful menu-driven command and control functions for easy integration and very low cost-per-megabyte.

All TLS-Series libraries are available with Q-Link, Storageflex's web browser accessed remote library manager that enables administrators to configure, upgrade, and monitor any TLS-Series tape library via a company intranet or over the internet from anywhere in the world. Q-Link extends the library's comprehensive front panel menu system and adds additional functionality such as automatic e-mail notification based on rules set by the administrator, and firmware updates can be implemented remotely.

Developed for the TLS-Series libraries, VIOP is now incorporated in every TLS model. An exclusive Qualstar design feature, VIOP, Variable I/O Port, allows users to match the number of I/O slots to their operational requirements. Applications are not constrained by limits imposed by libraries with a fixed number of I/O slots. Users can assign the number of slots to best match their requirements. VIOP compliments the hardware I/O Ports which continue to be included or available in all models.

Logical Library is built into every TLS-Series library. It allows up to four servers to share a single library via a SCSI interface, even if each server is running a separate application. Systems that you couldn't afford to upgrade can now be protected automatically. Support for multiple SCSI buses is also built-in to maximize throughput in direct-attach architectures.

The TLS-4000 family now supports WORM (write once, read many) tape technology in every model. WORM data protection has long been the standard for document imaging applications where unalterable records are required. New federal government regulations make WORM tape equipped libraries the clear choice for low-cost financial record keeping, medical record storage and other applications requiring long term, secure archival retention.

### Features & Benefits:

Feature	Benefit
Widest capacity range	Common format throughout the enterprise
Up to twelve AIT tape drives	High throughput, concurrent read and write
VIOP	Application controls tape inventory. Bulk tape import / export
I/O Port	Application controls tape inventory
Logical Library Partitioning (SCSI only)	Supports up to 4 separate partitions
WORM Tape Option	Lowest cost, unalterable storage
Automatic alignment	No Special tools or procedures
No electrical or Mechanical adjustments	Easy, fast installation
Barcode Scanner	Better media inventory control

### TLS-4000 Specifications Table:

Feature / Model	4212	4222	4440	4480	4660	46120	412180	412360	412300	412600	
Maximum Number of Drives	2		4			8			12		
Maximum Number of Tapes*	14/13	24/22	42	84	63	126	180	360	300	600	
Native Capacity (TB) AIT-4	2.8/2.6	48/22	8.4	12.8	12.6	25.2	36	72	60	120	
Native Capacity (TB) AIT-3	1.4/1.3	2.4/2.2	4.2	8.4	6.3	12.6	18	36	30	60	
Native Capacity (TB) AIT-2	0.70/0.65	1.2/1.1	2.1	4.2	3.1	6.3	9	18	15	30	
Cap. w/ Comp. (GB)* AIT-4	7.2/6.6	12.4/11.4	21.8	16.3	21.7	46.8	93.6	187.2	156	312	
Cap. w/ Comp. (GB)* AIT-3	3.6/3.3	6.2/5.7	10.9	21.8	16.3	32.7	46.8	93.6	78	156	
Cap. w/ Comp. (GB)* AIT-2	1.8/1.6	3.1/2.8	5.4	10.9	8.1	16.3	23.4	46.8	39	78	
Native Data Rate (GB/hr.) AIT-4	172		344			518			1.0 TB / hr		
Native Data Rate (GB/hr.) AIT-3	86		172			259			518		
Native Data Rate (GB/hr.) AIT-2	43		86			129			259		
Comp. Data Rate (GB/hr.)* AIT-4	448		898			1.3 TB / hr.			2.6 TB /hr		
Comp. Data Rate (GB/hr.)* AIT-3	224		449			673			1.3 TB /hr		
Comp. Data Rate (GB/hr.)* AIT-2	112		224			336			673		
Barcode reader	Optional					Standard					
Scan Barcodes (sec.)	13	20	35	70	65	99	115	140			
I/O Port	Optional					Standard					
Field Expansion to Model	4222		4480		46120		412360		412600		
Height (in./cm)	22/58		39/96			41/105			52/132		69/176
Width (in./cm)	13/33		14/35			15/38			30/75		30/75
Depth (in./cm)	21/54		22/57			25/64			25/64		25/64
Net Weight (lb./kg)	60/27		89/40			104/47			261/118		361/163
Power Consumption (avg.)	215 watts		255 watts			300 watts			315 watts		365 watts

\* I/O Port option subtracts 1 tape slot in TLS-4212 and 2 slots in TLS-4222, based on 2.6:1 Compression Ratio

**Warranty:** 3 Years Advance Replacement Warranty, Standard.

**Safety Compliance:** UL, CSA, CE, FCC Class A, CB

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