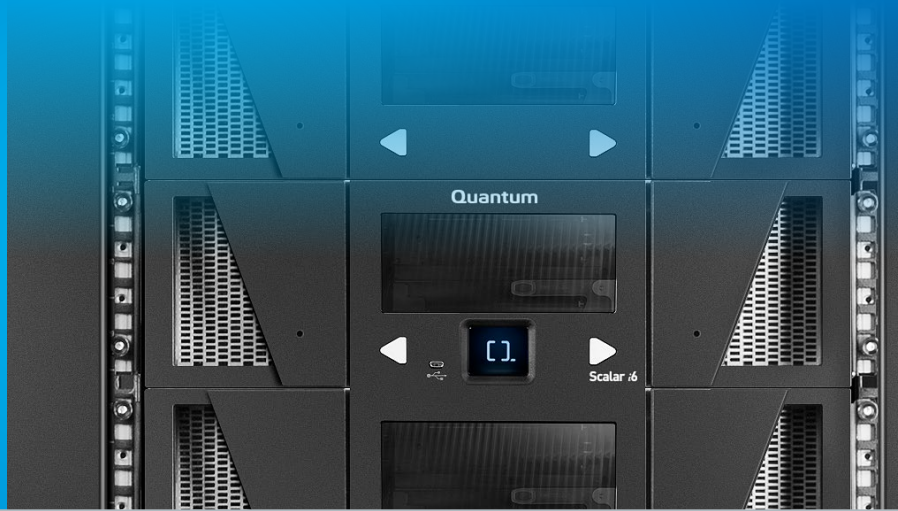


# Quantum®

## Scalar i6



### > DATASHEET

## Efficient, Intelligent Enterprise-Scale Tape Storage

Massive growth of unstructured data is challenging IT organizations across all industries. The sheer scale of data under management and its rapid growth rate is requiring new levels of storage efficiency. Organizations are realizing the best approach is an intelligent, multi-tiered storage solution that balances performance and cost, and scales easily while providing users with simple access to all their stored content. As the lowest-cost storage technology, tape is playing an important role in these new solutions. Scalar® i6 provides the most efficient, lowest-cost storage solution for these demanding workflow environments.

### HIGH EFFICIENCY

Scalar i6 delivers best-in-class storage density with up to 24 PB in a single 19-inch rack, minimizing your valuable data center footprint. 80 PLUS® certified power supplies require the lowest power and cooling, further minimizing ongoing operating costs, while iLayer™ software features like Proactive Diagnostics and RESTful Web Services save valuable library administration time.

### DATA INTEGRITY AND SECURITY

Policy-based data integrity checks are automated with the Extended Data Life Management (EDLM) feature, ensuring stored content remains readable. With intelligent data management applications like Quantum StorNext®, suspect tapes can have content migrated automatically to a new tape, creating a self-healing archive. And in-library vaulting provides protected long-term storage in the security of the customer's data center. Additional security features like AES 256-bit encryption and media removal notifications ensure valuable content is protected from unauthorized access.

### SCALABILITY

A modular design simplifies scalability for managing growth. Each Scalar i6 module supports up to three full-height LTO tape drives and 100 storage slots, for up to 3 PB of storage per module. Capacity-on-Demand (CoD) slot licensing in 25-slot increments provides small granularity to better manage your storage costs in a pay-as-you-grow approach, with capacity scaling from 1.5 PB up to 24 PB within a single 19-inch rack.

## FEATURES & BENEFITS

### Best-in-Class Storage Density

Saves valuable data center footprint with up to 24 PB in a single 19-inch rack.

### Extended Data Life Management (EDLM)

Ensures stored data remains readable with automated integrity checks.

### Active Vault

Secure in-library vaulting saves cost, increases security, and simplifies access to vaulted content.

### Capacity-on-Demand Growth

Simplifies growth by scaling quickly and easily, without disruption.

### Proactive Monitoring and Diagnostics

Maximizes library uptime by resolving issues before they impact operations.

### 80 PLUS Certified Power Supplies

High-efficiency, green power supplies minimize power and cooling costs.

### Advanced Reporting

Media, drive, and media security reports help manage system resources, improve security, and improve budget and planning. Automated report scheduling and distribution save time.

### High-Availability Features

Redundant power supplies and path failover prevent downtime in the event of failure.

### Proactive Monitoring and Diagnostics

Ensures the entire system stays running smoothly; provides guided steps to resolve issues, often before failures occur.

### Encryption Key Management

FIPS-validated solution with KMIP support makes it easy to manage keys, mitigating risk of lost data. AES 256-bit encryption standard provides the highest levels of security.



> LEARN MORE:  
[www.quantum.com/scalar](http://www.quantum.com/scalar)

# TECHNICAL SPECIFICATIONS

## CAPACITY CONFIGURATIONS

SYSTEM CAPACITY											
No. of Modules	Form Factor	Maximum Slots	Maximum Drives	Maximum Capacity TB (PB) <sup>1</sup>							
				LTO-6 (L6)		LTO-7 (L7)		LTO-8 (M8) <sup>2</sup>		LTO-8 (L8)	
				TB	PB	TB	PB	TB	PB	TB	PB
1 (1 CM)	6U	100	3	625	0.6	1,500	1.5	2,250	2.25	3,000	3.0
2 (1 CM, 1 EM)	12U	200	6	1,250	1.25	3,000	3.0	4,500	4.5	6,000	6.0
3 (1 CM, 2 EM)	18U	300	9	1,875	1.9	4,500	4.5	6,750	6.75	9,000	9.0
4 (1 CM, 3 EM)	24U	400	12	2,500	2.5	6,000	6.0	9,000	9.0	12,000	12.0
5 (1 CM, 4 EM)	30U	500	15	3,125	3.1	7,500	7.5	11,250	11.25	15,000	15.0
6 (1 CM, 5 EM)	36U	600	18	3,750	3.75	9,000	9.0	13,500	13.5	18,000	18.0
7 (1 CM, 6 EM)	42U	700	21	4,375	4.4	10,500	10.5	15,750	15.75	21,000	21.0
8 (1 CM, 7 EM)	48U	800	24	5,000	5.0	12,000	12.0	18,000	18.0	24,000	24.0

Minimum capacity is 50 slots; additional slots can be activated with a Capacity-on-Demand (COD) license.

<sup>1</sup>Assumes 2.5:1 compression.

<sup>2</sup>New, unused LTO generation 7 cartridges can be initialized as LTO-8 Type M media (M8).

## OPERATION

<b>User Interface:</b>	Local touch screen; HTML5 remote management GUI with mobile-first design for mobile, tablet, and PC support
<b>Connectivity Options:</b>	8 Gb Fibre Channel for library control and data; 1 GbE for management
<b>Inventory Speed:</b>	Ranges from approx. 1 minute to 6 minutes, depending on the configuration
<b>Firmware Updates:</b>	Customers can choose to have automatic checks for firmware updates to ensure use of the latest library and drive code levels.
<b>Configuration:</b>	Auto-discovery and auto-calibration for installed/added components (modules, tapes, drives, magazines, etc.)
<b>Library Partitioning:</b>	Supports up to 15 partitions
<b>Import/Export:</b>	Configurable, 0 to 50 slots in 5-slot increments for every module

## RELIABILITY

<b>Library MSBF:</b>	Greater than 2 million
<b>Library MTTR:</b>	30 minutes
<b>Power:</b>	Optional 2N power
<b>Diagnostics:</b>	Proactive Diagnostics embedded within the library monitor major subsystems, run self-diagnostic procedures, and send policy-based communications to system administrators
<b>Module Upgrade:</b>	Any module may be added in less than 30 minutes; all components are customer installable.

## PHYSICAL

Module	H x W x D
Control Module	10.4 in x 17.4 in x 36.4 in (26.5 cm x 44.1 cm x 92.45 cm)
Expansion Module	10.4 in x 17.4 in x 36.4 in (26.3 cm x 44.1 cm x 92.45 cm)

## RACK INSTALLATION REQUIREMENTS

- Library must be installed in a standard 19-inch four-post rack enclosure
- Minimum rack depth is 42.13 inches (1,070 mm)

## SOFTWARE AND PLATFORM COMPATIBILITY

For a complete list of software and platforms compatible with Scalar i6, consult the most recent Quantum Software Compatibility Guide at [www.quantum.com/swcompguide.aspx](http://www.quantum.com/swcompguide.aspx).

## COMPLIANCE AND CERTIFICATION

<b>Safety Standards:</b>	IEC-60950 with worldwide country deviations
<b>Emissions Standards:</b>	CNS 13438 Class A, EN 55022:2010 Class A, FCC Part 15 Class A, KN 32, VCCI EN 55024, KN 35
<b>Immunity Standards:</b>	CE (Europe), VCCI (Japan), TUV/GS (Germany), FCC (USA), ICES (Canada), cTUVus (USA and Canada), EAC (EurAsian Conformity Mark), KCC (Korea), BSMI (Taiwan)
<b>International Certifications:</b>	

## ENVIRONMENTAL

<b>Electrical:</b>	100 VAC to 240 VAC, 50 Hz to 60 Hz
<b>Power:</b>	80 PLUS certified power supplies
<b>Temperature:</b>	16 °C to 35 °C operating temperature
<b>Humidity:</b>	20 to 80% non-condensing operating humidity

## DRIVE CAPACITY AND PERFORMANCE

Drive Type	Media Type	Cartridge Capacity Native/Compressed <sup>1</sup> (TB)	Drive Throughput Native/Compressed <sup>1</sup> (MB/sec)
LTO-8	LTO-8 (L8)	12 / 30	360 / 900
LTO-8	LTO-7 (M8) <sup>2</sup>	9 / 22.5	300 / 750
LTO-7	LTO-7 (L7)	6.0 / 15.0	300 / 750
LTO-6	LTO-6 (L6)	2.5 / 6.25	160 / 400

LTO tape drives support encryption and LTFS.

<sup>1</sup>Assumes 2.5:1 compression.

<sup>2</sup>New, unused LTO generation 7 cartridges can be initialized as LTO-8 Type M media (M8).

## ADVANCED FEATURES

<b>Extended Data Life Management:</b>	Automated, policy-based data integrity checks
<b>Active Vault:</b>	In-library media vaulting
<b>Advanced Reporting:</b>	Media Integrity Analysis report, Media Usage report, Drive Utilization report, Security report and media removal notifications; report scheduling with automated report creation and delivery to distribution lists
<b>Path Failover:</b>	Control Path and Data Path Failover

## ABOUT QUANTUM

Quantum is a leading expert in scale-out tiered storage, archive, and data protection, providing solutions for capturing, sharing, and preserving digital assets over the entire data lifecycle. From small businesses to major enterprises, more than 100,000 customers have trusted Quantum to address their most demanding data workflow challenges. Quantum's end-to-end, tiered storage foundation enables customers to maximize the value of their data by making it accessible whenever and wherever needed, retaining it indefinitely and reducing total cost and complexity. See how at [www.quantum.com/customerstories](http://www.quantum.com/customerstories).