

Quantum®

Scalar i3



> DATASHEET

The Easy, Efficient, and Scalable Tape Library

Tape remains a popular storage choice for data backup and DR, long-term data retention, and unstructured data archives. Tape's cost benefit, durability, portability, and off-line protection from ransomware are among the reasons for its sustained popularity. As IT organizations wrestle with rapid unstructured data growth and the increased risk of ransomware attacks, along with the business realities of resource constraints, it's critical for IT solutions to maximize efficiencies beyond just acquisition costs.

EASE OF USE

The Scalar® i3 tape library is designed for ease of use from initial setup to ongoing management. The Scalar iLayer™ management software, proven to reduce management time and improve system uptime, has been fully refreshed for even greater efficiencies and a modern, intuitive user experience. Its mobile-first user interface design allows library management from anywhere with a network connection on virtually any device.

HIGH EFFICIENCY

With features like best-in-class storage density, providing up to 0.75PB in just 3U and up to 3PB in 12U, along with 80 PLUS®-certified power supplies, Scalar i3 enables users to reduce their tape footprint and lower their power and cooling costs, ensuring savings on more than just the initial purchase.

SCALABILITY

Scalar i3 simplifies growth management with a modular design and Capacity-on-Demand (CoD) scalability. It can scale cartridge slots from 25 slots up to 200—instantly—with CoD software licensing, providing compressed capacities from 375TB up to 3PB. And users can add read/write performance as needed, with support for up to 12 tape drives. With the partitioning feature, Scalar i3 can provide data protection and archiving in a single library as a valuable tool to address today's IT challenges.

FEATURES & BENEFITS

iLayer Intelligent Software

Brings system setup and management to a whole new level of ease, saving valuable time.

Capacity-on-Demand Growth

Simplifies storage provisioning by scaling capacity quickly and easily, without disruption.

Best-in-Class Storage Density

Saves valuable data center footprint with the highest tape storage per rack U.

80 PLUS-Certified Power Supplies

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

Advanced Reporting

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

High Availability Features

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

Proactive Monitoring and Diagnostics

Resolves issues before impacting operations, to maximize system uptime and minimize operational expenses.

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 for highest levels of security.



> LEARN MORE:
www.quantum.com/scalar

TECHNICAL SPECIFICATIONS

CAPACITY CONFIGURATIONS

SYSTEM CAPACITY							
No. of Modules	Form Factor	Max Slots	Max Drives	Max Capacity TB (PB)*			
				LTO-6		LTO-7	
				TB	PB	TB	PB
1 (1CM)	3U	50	3	312.5	0.3	750	0.75
2 (1CM, 1EM)	6U	100	6	625	0.6	1,500	1.5
3 (1CM, 2EM)	9U	150	9	937.5	0.9	2,250	2.25
4 (1CM, 3EM)	12U	200	12	1,250	1.25	3000	3.0

Minimum capacity is 25 slots; additional slots can be activated with a Capacity-on-Demand (CoD) license.
*Assumes 2.5:1 compression

OPERATION

Interface Options:	8Gb fibre channel and 6Gb SAS
Inventory Speeds:	Approximately 1 minute for typical configurations
Firmware Updates:	Customers can choose to have automatic checks for firmware updates, to ensure use of the latest library and drive code levels.
Configuration:	Auto-discovery and auto-calibration for installed/added components (modules, tapes, drives, magazines, etc.)
Library Partitioning:	Supports up to 12 partitions
Import/Export:	Configurable, 0-25 in 5-slot increments for every module

RELIABILITY

Library MSBF:	Greater than 2,000,000
Library MTTR:	30 minutes
Power:	Optional 2N power
Diagnostics:	Proactive diagnostics embedded within the library monitor major subsystems, runs self-diagnostic procedures, and policy-based communications to system administrators
Module Upgrade:	Any module may be added in less than 30 minutes; all components are customer-installable.

PHYSICAL

Module	HxWxD
Control Module	5.2" x 17.4" x 36.4" [13.3cm x 44.1cm x 92.45cm]
Expansion Module	5.2" x 17.4" x 36.4" [13.1cm x 44.1cm x 92.45cm]

RACK INSTALLATION REQUIREMENTS

- Library must be installed in a standard 19-inch four-post rack enclosure
- Minimum rack depth is 42.13 inches (1070 mm)

SOFTWARE COMPATIBILITY

Consult the most recent Quantum Software Compatibility Guide at <http://www.quantum.com/swcompguide.aspx> for a complete list of software and platforms compatible with Scalar i3.

COMPLIANCE AND CERTIFICATION

Safety Standards:	IEC60950 with worldwide country deviations
Emissions Standards:	CNS13438 Class A, EN55022:2010 Class A, FCC Part 15 Class A, KN 32, VCCI
Immunity Standards:	EN55024, KN 35
International Certifications:	CE (Europe), VCCI (Japan) TUV/GS (Germany), FCC (USA), ICES (Canada), cTUVus (USA & Canada), EAC (EuroAsian Conformity Mark), KCC (Korea), BSMI (Taiwan)

ENVIRONMENTAL

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

DRIVE CAPACITY AND PERFORMANCE

Drive Type	Cartridge Capacity Native/Compressed* (TB)	Drive Throughput Native/Compressed* (MB/sec)
LTO-7	6.0 / 15.0	300 / 750
LTO-6	2.5 / 6.25	160 / 400

LTO-7 and LTO-6 tape drives support encryption and LTFS.
*Assumes 2.5:1 compression

ADVANCED FEATURES

Advanced Reporting:	Media Integrity Analysis report, Media Usage report, Drive Utilization report, Media Security report and media removal notifications, Report scheduling with automated report creation and delivery to distribution lists
Control Path Failover:	Provides redundant connectivity for robotics control

ABOUT QUANTUM

Quantum is a leading expert in scale-out 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.