



Scalar i6000

The Intelligent Tape Library for Enterprise Archive, Disaster Recovery and Long-term Data Retention

Protecting and retaining your data can be challenging. Keeping pace with fast, unpredictable data growth in a cost- and time-efficient manner pushes IT staff to their limits. Ensuring that data is secure and available over long periods of time adds to these challenges. The Scalar® i6000 tape library was designed to solve these problems and simplify your environment.

The i6000 scales up to 21PB of data, supporting large enterprise storage environments. Capacity-on-Demand offers fast, flexible, and non-disruptive growth, easing the difficulties of managing dynamic storage requirements. Quantum customers experience significant management time savings due to the intelligent and proactive features in iLayer™ management software, up to 75% savings compared to other libraries. High availability features like Dual Robot and Path Failover allow the library to continue to operate despite failures. The Extended Data Life Management feature ensures your archived media is trouble-free so the data is available when you need it.

Security features like access control and FIPS-compliant encryption key management safeguards your data while it's in the library, after export, and when it's offsite.



The Scalar i6000 features ultra high density and a 19-inch rack form factor and scales from 100 to 7224 cartridges.

AUTOMATION

1 TO 96 DRIVES

100 TO 7224 CARTRIDGES

INTEGRATED iLAYER MANAGEMENT SOFTWARE

CAPACITY-ON-DEMAND

DUAL ROBOTS

LIBRARY-MANAGED MEDIA INTEGRITY CHECKING OF DATA

FEATURES AND BENEFITS

- **iLayer Intelligent Software** – Intelligent software automates administrative tasks, reducing administrative time up to 75% compared to other tape library products.
- **Dual Robot** – Adds a second robot to the library for high availability. Allows the library to continue to operate despite a robot failure. Robot service is non-disruptive to the application.
- **Extended Data Life Management** – Exclusive iLayer feature used to ensure availability of your data placed in long-term storage/archive/DR. Integrated with StorNext® Storage Manager to automate protection of archived data.
- **Active Vault** – Vault archive tapes inside the library to minimize costs while improving security and data protection. Eliminates the need to manually handle vaulted tapes.
- **Advanced Reporting** – Media, drive and security reports improve understanding of library utilization and performance. Automated report scheduling and distribution save time.
- **Native Storage Networking** – Control path and data path failover features reduce downtime. LUN mapping capability improves security.
- **Tape Consolidation** – Library capacity, high availability features, and partitioning support tape consolidation, delivering significant ROI.
- **Bulk Cartridge Imports/Exports** – Extended I/E feature creates a logical/virtual I/E station inside the library for fast imports and exports. New 72-slot mailbox supports the largest import/export capability in the industry.
- **Modular Architecture with Continuous Robotics** – Provides flexible scalability in a standard 19" rack form factor without sacrificing reliability.
- **Capacity-on-Demand Growth** – Simplifies storage growth by scaling quickly, easily and without disruption.
- **Quantum Vision® Management Software Support** – Reduces management time in multiple-device environments and integrates easily with Quantum disk backup solutions.
- **Scalar Key Manager Support** – FIPS-validated solution makes it easy to manage keys, mitigating risk of lost data. LTO-4 and LTO-5 Drives use AES 256-Bit Encryption Standard for highest levels of security.
- **Scalar LTFS** – Appliance that presents tapes as NAS storage, enabling new ways to manage and access archive files.



CAPACITY CONFIGURATIONS

TOTAL DRIVE, CARTRIDGE AND CAPACITY RANGES			
Technology	Drives	Cartridges	Capacity (TB) ¹
LTO-6 ²	1 to 96	100 to 7,224	45,150
LTO-5 ²	1 to 96	100 to 7,224	21,700
LTO-4 ²	1 to 96	100 to 7,224	11,600
LTO-3 ²	1 to 96	100 to 7,224	5,800

Please see www.quantum.com for more drive specifications.
 1 Assumes 2:1 compression for LTO-3, LTO-4 and LTO-5. Assumes 2.5:1 compression for LTO-6.
 2 Choice of IBM or HP models.

CAPACITY-ON-DEMAND

Cartridge Slot Starting Points: 100, 200, 400, 700, 1500, 3000, 5000, and 7000

OPERATION

Drive Interface: Native Storage Networking 8Gb FC, Native 8Gb FC, Storage Networking 4Gb FC
Library Interface: 8Gb FC bridged through the drive, or 4Gb FC bridged through the integrated I/O blade
Inventory Speed: 100 slots in 20 seconds
Configuration: Auto-discovery and auto-calibration for installed/added components (modules, tapes, drives, magazines, etc.)

IMPORT/EXPORT OPTIONS*

Control Module: One I/E Station with 24 LTO slots or 20 SDLT slots
Expansion Modules: Option for no import export, 24 LTO slot I/E station, 20 SDLT slot I/E station, or 72 LTO slot I/E station
Maximum I/E Station Slots: 528 LTO Slots; 160 SDLT slots
Extended I/E: Allows licensed storage slots to be used as import/export elements

*Up to 240 import/export elements supported per logical partition

ENVIRONMENTAL

Electrical: 100-240 VAC, 2-24 kVA
 -48 VDC, <1 KVA per module
Temperature: 15 to 35°C operating
Humidity: 20 to 80% non-condensing operating

RELIABILITY

Library MSBF: Greater than 2,000,000
Library MTTR: 20 minutes, 10 minutes for Dual Robot replacement
Power: Optional 2N power
Diagnostics: Embedded monitoring of major subsystems, self-diagnostic procedures, and policy-based email and pager alerts to system administrators and Quantum Global Services

COMPATIBILITY

Consult the most recent Software Compatibility Guide on www.quantum.com for a complete list of software and platforms compatible with Scalar i6000.

COMPLIANCE AND CERTIFICATION

Safety: TUV IEC-60950-1:2006 CB Scheme, EN60950-1 2nd Edition
Emissions: Class A: FCC CFR-47 Part 15, CISPR 22, EN55022, KN22, ICES-003
Immunity: EN55024, KN24
International: CE, cTUVus, KCC (MIC), GOST, VCCI, C-Tick

PHYSICAL

Module Type	HxWxD
Control Module (HxWxD):	77.4"x24.3"x38.3" [196.6cmx61.7cmx97.4cm]
Expansion Module (HxWxD):	77.4"x23.6"x38.3" [196.6cmx59.9cmx97.4cm]
Parking Module (HxWxD):	77.4"x23.6"x38.3" [196.6cmx59.9cmx97.4cm]

DRIVE CAPACITY AND PERFORMANCE

Drive Type	Cartridge Capacity	Drive Throughput	Encryption Support	LTFS
	Native/Compressed ¹ (GB)	Native/Compressed ¹ (MB/sec)		
LTO-6 ²	2,500 / 6,250	160 / 400	Yes	Yes
LTO-5 ²	1,500 / 3,000	140 / 280	Yes	Yes
LTO-4 ²	800 / 1600	120 / 240	Yes	No
LTO-3 ²	400 / 800	80 / 160	No	No

Please see www.quantum.com for more drive specifications.
 1 Assumes 2:1 compression for LTO-3, LTO-4 and LTO-5. Assumes 2.5:1 compression for LTO-6.
 2 Choice of IBM or HP models.

ADVANCED FEATURES

Advanced Reporting: 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

Active Vault: Vault archive tapes inside the library. Reduces software and hardware costs. Reduces management time. Policy-based tape exports. Improves data security

Extended Data Life Management: Media health reports of cartridges stored for long-term archive and DR, information is collected outside of normal operations: Automated scheduling for scanning tapes. Notifications on test results. Policy-based data migration to new cartridges (only available with StorNext Storage Manager)

Dual Robot: Adds a second, redundant robot to the library for high availability.

Native Storage Networking: Control Path Failover, Data Path Failover, LUN Mapping, Drive Firmware Autoleveling

Library Partitioning: Supports up to 16 partitions for tape consolidation

ABOUT QUANTUM

Quantum is a proven global expert in Data Protection and Big Data management, providing specialized storage solutions for physical, virtual and cloud environments. From small businesses to major enterprises, more than 50,000 customers trust Quantum to help maximize the value of their data by protecting and preserving it over its entire lifecycle. With Quantum, customers can Be Certain they're able to adapt in a changing world – keeping more data longer, bridging from today to tomorrow, and reducing costs. See how at www.quantum.com/BeCertain.

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