



## Scalar i500

The Intelligent Scalable Midrange Tape Library

The Quantum Scalar® i500 is the intelligent scalable tape library that gives growing midrange storage environments faster, easier, and more reliable data protection. It combines a modular design with continuous robotics to provide industry-leading scalability, performance, and reliability. The Scalar i500 includes Quantum's iLayer™ software with proactive monitoring and remote diagnostics that can reduce management time by 75%, reduce service calls by 50%, and shorten issue resolution times by 30%. Its Capacity-on-Demand scalability lets it grow non-disruptively with users' data. 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. And the Scalar i500 is designed to integrate easily with disk backup, making it the perfect library for tiered storage architectures. With the Scalar i500, IT managers can be assured they have a scalable, reliable, secure, high-performance archive and effective long-term protection for years into the future, no matter how their storage needs evolve.



*The Scalar i500 combines a modular architecture with a single, continuous robotics system for the industry's leading combination of scalability, performance, reliability, and value.*

### AUTOMATION

1 TO 18 DRIVES

41 TO 409 CARTRIDGES

MODULAR GROWTH,  
CONTINUOUS ROBOTICS

CAPACITY-ON-DEMAND

INTEGRATED iLAYER  
MANAGEMENT SOFTWARE

LIBRARY-MANAGED MEDIA INTEGRITY  
CHECKING OF DATA

SCALAR LTFS SUPPORT

### FEATURES AND BENEFITS

- **iLayer Intelligent Software** – Integrated management software makes the i500 easier to manage, reducing administrative time up to 75% compared to other tape library products.
- **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.
- **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.
- **Proactive Monitoring and Remote Diagnostics** – Improves your service levels by reducing service calls 50% and shortens resolution time by 30%.
- **Modular Rack Mount Architecture with Continuous Robotics** – Provides flexible scalability without sacrificing reliability; easily deployed in almost any environment.
- **Capacity-on-Demand Growth** – Simplifies storage provisioning by scaling quickly, easily and without disruption.
- **Scalar LTFS** – Appliance that presents tapes as NAS storage, enabling new ways to manage and access archive files.
- **Vision Management Software Support** – Lets you monitor the i500 from your cell phone. Reduces management time in multiple-device environments and integrates easily with Quantum disk backup solutions.
- **Encryption** – FIPS-validated solution with KMIP support makes it easy to manage keys, mitigating risk of lost data. LTO-4, LTO-5 and LTO-6 Drives use AES 256-Bit Encryption Standard for highest levels of security.
- **StorageCare® Guardian Support** – Remote monitoring service that improves system reliability without adding cost.
- One year warranty with enhanced service options.



CAPACITY CONFIGURATIONS

SYSTEM CAPACITY						
Module Size	Max Slots	Max Drives	Max Capacity	Max Capacity	Max Capacity	
			(LTO-4, TB @ 2:1 compression)	(LTO-5, TB @ 2:1 compression)	(LTO-6, TB @ 2.5:1 compression)	
5U Control Module	41	2	65.6	123	256	
14U	133	6	212.8	399	831	
23U	225	10	360	675	1406	
32U	317	14	507.2	951	1981	
41U	409	18	654.4	1227	2556	

9U expansion modules hold up to 92 tapes. At installation, users may select slot activation levels of 0, 46, or 92 tape positions.

OPERATION

<b>Drive Interface:</b>	8Gb fiber, 4Gb fiber, 6Gb SAS, 3Gb SAS, SCSI-2/SCSI-3 LVD interface options
<b>Library Interface:</b>	8Gb fiber, 4Gb fiber, 6Gb SAS, 3Gb SAS, SCSI-2/SCSI-3 LVD
<b>Inventory Speed:</b>	55 seconds for average 5U configuration; 110 seconds for average 14U configuration
<b>Configuration:</b>	Auto-discovery and auto-calibration for installed/added components (modules, tapes, drives, magazines, etc.)
<b>Import/Export:</b>	Up to 54 (LTO) positions in removable magazines

RELIABILITY

<b>Library MSBF:</b>	Greater than 2,000,000
<b>Library MTTR:</b>	30 minutes
<b>Power:</b>	Optional 2N power for all systems and drives
<b>Diagnostics:</b>	Embedded monitoring of major subsystems, self-diagnostic procedures, and policy-based email and pager alerts to system administrators and Quantum Global Services
<b>Module Upgrade:</b>	Any storage module may be added in less than 30 minutes; customer-installable components include some drives, fans, power supplies, slot upgrades

PHYSICAL

System	HxWxD	Weight
5U Base System	8.6" x 17.4" x 31.4" [21.9cm x 44.2cm x 79.8cm]	66 lbs [30 Kgs]
14U Base System	24.4" x 17.4" x 31.4" [61.9cm x 44.2cm x 79.8cm]	125 lbs [56.8 Kgs]
23U Base System	40.1" x 17.4" x 31.4" [101.9cm x 44.2cm x 79.8cm]	184 lbs [83.6 Kgs]
9U Expansion Module	15.8" x 17.4" x 31.4" [40cm x 44.2cm x 79.8cm]	59 lbs [26.8 Kgs]
Drive	8.9" x 13" x 16.4" [22.6cm x 33cm x 41.7cm]	10 lbs [4.6 Kgs]
Power Supply	8.9" x 13" x 16.4" [22.6cm x 33cm x 41.7cm]	5 lbs [2.3 Kgs]

SOFTWARE AND PLATFORMS

Consult the most recent Quantum Software Compatibility Guide on [www.quantum.com](http://www.quantum.com) for a complete list of software and platforms compatible with Scalar i500.

COMPLIANCE AND CERTIFICATION

<b>Safety Standards:</b>	IEC 60950 with worldwide country deviations
<b>Emissions Standards:</b>	CISPR 22 Class A, EN55022 Class A, EN61000-3-2, EN61000-3-3
<b>Immunity Standards:</b>	EN 55024
<b>International Certifications:</b>	CE (Europe), VCCI (Japan), TUV/GS (Germany), FCC (USA), ICES (Canada), cTUVus (USA & Canada), GOST (Russia), MIC (Korea), BSMI (Taiwan)

ENVIRONMENTAL

<b>Electrical:</b>	100-240 VAC, 50-60Hz
<b>Temperature:</b>	10 to 35°C operating
<b>Humidity:</b>	20 to 80% non-condensing operating

DRIVE CAPACITY AND PERFORMANCE

Drive Type	Cartridge Capacity Native/Compressed (GB)	Drive Throughput Native/Compressed (MB/sec)	Data Buffer (MB)
LTO-6	2500 / 6250	160 / 400	256
LTO-5	1500 / 3000	140 / 280	256
LTO-4	800 / 1600	120 / 240	128
LTO-3	400 / 800	80 / 160	128

<sup>1</sup> Assumes 2:1 compression for LTO-3, LTO-4 and LTO-5. Assumes 2.5:1 compression for LTO-6.

ADVANCED FEATURES

<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>Extended Data Life Management:</b>	Media health reports of cartridges stored for long-term archive and DR, information is collected outside of normal operations: <ul style="list-style-type: none"> <li>- Automated scheduling for scanning tapes</li> <li>- Notifications on test results</li> <li>- Policy-based data migration to new cartridges (only available with StorNext Storage Manager)</li> </ul>
<b>Native Storage Networking:</b>	Control Path Failover, Data Path Failover, LUN Mapping, Drive Firmware Autoleveling
<b>Library Partitioning:</b>	Supports up to 18 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](http://www.quantum.com/BeCertain).

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