

Quantum®

Scalar i500



> DATASHEET

The Intelligent, Scalable Midrange Tape Library

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. 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%. Capacity-on-Demand (CoD) scalability enables non-disruptive growth as your capacity of data under management grows. The Extended Data Life Management (EDLM) feature ensures your archived media is trouble free, so the data is available when you need it. Security features like FIPS-compliant encryption key management safeguard your data while in the library, after export, and off-site. And Scalar i500 is designed to integrate easily with disk backup, making it the perfect library for tiered storage architectures. With Scalar i500, IT managers are assured of having scalable, reliable, secure, high-performance archive and effective long-term protection for years into the future, no matter how their storage needs evolve.



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

FEATURES & BENEFITS

iLayer Intelligent Software: Integrated management software makes Scalar i500 easier to manage, reducing administrative time up to 75%.

Extended Data Life Management (EDLM): Exclusive iLayer feature ensures availability of data placed in long-term storage, archive, or DR.

Advanced Reporting: Media, drive, and security reports improve understanding of library utilization and performance. Automated report scheduling and distribution save time.

Path Failover: Control path and data path failover features reduce downtime.

Proactive Monitoring and Remote Diagnostics: Improves service levels by reducing service calls by 50% and resolution time by 30%.

Capacity-on-Demand Growth: Simplifies storage provisioning by scaling quickly, easily, and without disruption.

Scalar LTFS: Optional appliance that presents tapes as NAS storage, enabling new ways to manage and access archive files.

Vision® Management Software Support: Lets you monitor Scalar i500 from your smartphone. 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 drives use the AES 256-bit encryption standard for the highest levels of security.

StorageCare® Guardian Support: Remote monitoring service that improves system reliability without adding cost.

One year warranty with enhanced service options.



> **LEARN MORE:**
www.quantum.com/scalar

TECHNICAL SPECIFICATIONS

CAPACITY CONFIGURATIONS

| SYSTEM CAPACITY | | | | | | |
|-------------------|---------------|----------------|------------------------------------|------------|-------------------------|------------|
| Module Size | Maximum Slots | Maximum Drives | Maximum Capacity (TB) ¹ | | | |
| | | | LTO-6 (L6) | LTO-7 (L7) | LTO-8 (M8) ² | LTO-8 (L8) |
| 5U Control Module | 41 | 2 | 256 | 615 | 922 | 1,230 |
| 14U | 133 | 6 | 831 | 1,995 | 2,992 | 3,990 |
| 23U | 225 | 10 | 1,406 | 3,375 | 5,062 | 6,750 |
| 32U | 317 | 14 | 1,981 | 4,755 | 7,132 | 9,510 |
| 41U | 409 | 18 | 2,556 | 6,135 | 9,202 | 12,270 |

¹9U expansion modules hold up to 92 tapes. At installation, users may select slot activation levels of 0, 46, or 92 tape positions.

²Assumes 2.5:1 compression.

³New, unused LTO generation 7 cartridges can be initialized as LTO-8 Type M media (M8).

OPERATION

| | |
|---------------------------|---|
| Interface Options: | 8 Gb Fibre Channel and 6 Gb SAS |
| Inventory Speed: | 55 seconds for average 5U configuration; 110 seconds for average 14U configuration |
| Configuration: | Auto-discovery and auto-calibration for installed/added components (modules, tapes, drives, magazines, etc.); auto-leveling of drive firmware |
| Import/Export: | Up to 54 media slots in removable magazines |

RELIABILITY

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

PHYSICAL

| System | H x W x D | Weight |
|---------------------|--|------------------|
| 5U Base System | 8.6 in x 17.4 in x 31.4 in (21.9 cm x 44.2 cm x 79.8 cm) | 66 lb (30 kg) |
| 14U Base System | 24.4 in x 17.4 in x 31.4 in (61.9 cm x 44.2 cm x 79.8 cm) | 125 lb (56.8 kg) |
| 23U Base System | 40.1 in x 17.4 in x 31.4 in (101.9 cm x 44.2 cm x 79.8 cm) | 184 lb (83.6 kg) |
| 9U Expansion Module | 15.8 in x 17.4 in x 31.4 in (40 cm x 44.2 cm x 79.8 cm) | 59 lb (26.8 kg) |
| Drive | 8.9 in x 13 in x 16.4 in (22.6 cm x 33 cm x 41.7 cm) | 10 lb (4.6 kg) |
| Power Supply | 8.9 in x 13 in x 16.4 in (22.6 cm x 33 cm x 41.7 cm) | 5 lb (2.3 kg) |

SOFTWARE AND PLATFORM COMPATIBILITY

For a complete list of software and platforms compatible with Scalar i500, consult the most recent Quantum Software Compatibility Guide on www.quantum.com.

COMPLIANCE AND CERTIFICATION

| | |
|--------------------------------------|---|
| Safety Standards: | IEC-60950 with worldwide country deviations |
| Emissions Standards: | CISPR 22 Class A, EN 55022 Class A, EN61000-3-2, EN 61000-3-3 EN 55024 |
| Immunity Standards: | |
| International Certifications: | CE (Europe), VCCI (Japan), TUV/GS (Germany), FCC (USA), ICES (Canada), cTUVus (USA & Canada), GOST (Russia), MIC (Korea), BSMI (Taiwan) |

ENVIRONMENTAL

| | |
|---------------------|---|
| Electrical: | 100 VAC to 240 VAC, 50 Hz to 60 Hz |
| Temperature: | 10 °C to 35 °C operating temperature |
| Humidity: | 20 to 80% non-condensing operating humidity |

DRIVE CAPACITY AND PERFORMANCE

| Drive Type | Media Type | Cartridge Capacity Native/Compressed ¹ (TB) | Drive Throughput Native/Compressed ¹ (MB/sec) |
|------------|-------------------------|--|--|
| LTO-8 | LTO-8 (L8) | 12 / 30 | 360 / 900 |
| LTO-8 | LTO-7 (M8) ² | 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 |

¹Assumes 2.5:1 compression.

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

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 |
| Extended Data Life Management: | 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"> – Automated scheduling for scanning tapes – Notifications on test results – Policy-based data migration to new cartridges (only available with StorNext® Storage Manager) |
| Path Failover: | Control Path Failover, Data Path Failover |
| Library Partitioning: | Supports up to 18 partitions for tape consolidation |

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.