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 180PB 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 of library components or even failures within the SAN fabric. The Extended Data Life Management feature (EDLM) 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 and after export.

FEATURES & BENEFITS

iLayer Intelligent Software | Intelligent software automates administrative tasks, reducing administrative time up to 75% compared to other tape library products.

Active/Active Dual Robots | Adds a second robot to the library for high availability and faster performance. Operations continue in the event of a robot failure. Robot service is non-disruptive to the application.

Extended Data Life Management (EDLM) | Exclusive iLayer feature to ensure availability of your data placed in long-term storage/archive/DR. Integrates with StoreFile® Storage Manager to automate protection of archived data.

Active Vault | Archive tapes inside the library to minimize costs and cartridge handling while improving security and access to valued content.

High-Density Expansion Module | Can store almost 12 SPF in a single 19-inch rack without compromising cartridge access performance. Provides non-disruptive bulk loading, fast independent cartridge scannability.


Path Failover | Control and path data path failover features ensure library system stays operational and accessible even with a SAN fabric failure.

RESTful Web Services | Saves administrative time by easily automating repetitive tasks.

Smart Bulk Cartridge Import/Exports | The largest import/export capability in the industry, coupled with exclusive auto-import and export, restricts features, significantly reduces cartridge load/unload time.

Modular Architecture with Continuous Read/Write | Provides flexible scalability in a standard 19" rack form factor without sacrificing reliability.

Capacity-on-Demand Growth | Synchronizes 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-compliant solution makes it easy to manage keys, mitigating risk of lost data.

Scalar LTFS Appliance | Available at no additional cost and access archive files.

The Scalar i6000 features ultra high density and a 19-inch rack form factor and scales from 100 to 12,006 cartridges.
CAPACITY CONFIGURATIONS

<table>
<thead>
<tr>
<th>Technology</th>
<th>Drives</th>
<th>Cartridges</th>
<th>Capacity (TB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTO-9</td>
<td>1 to 192</td>
<td>100 to 17,036</td>
<td>181,980</td>
</tr>
<tr>
<td>LTO-6</td>
<td>1 to 192</td>
<td>100 to 12,036</td>
<td>75,036</td>
</tr>
<tr>
<td>LTO-5</td>
<td>1 to 192</td>
<td>100 to 10,036</td>
<td>56,018</td>
</tr>
</tbody>
</table>

*Please see www.quantum.com for more drive specifications.

* Assumes 2:1 compression for LTO-6; Assumes 2:1 compression for LTO-6 and LTO-7

CAPACITY-ON-DEMAND

Cartridge Slot Starting Points: 100, 200, 300, 400, 500, 600, 700, 900, and 1,100

OPERATION

Drive Interface: 8Gb FC, Native 6Gb FC
Library Interface: 8Gb FC, bridged through the drive for data, 10GbE with remote GUI and RESTful web services for library management
Inventory Speed: Auto discovery and auto calibration for installed components (modules, tape drives, magazines, etc.)

IMPORT/EXPORT OPTIONS*

Control Module: One I/E Station with 24 slots.
Expansion Modules: Option for 8, 24, or 72 slot I/E stations per expansion module.
Maximum I/E Station Slots: 1,104 Slots
Extended I/E: Allows licensed storage slots to be used as import/export elements.
Bulk Load/Unload: Up to 540 slots per High Density Expansion Module II (HDEII) without interrupting library operations.
Auto-import: Library automatically imports cartridges to multiple partitions based on user policies without needing cartridges placed in specific I/E slots.
Export Redirect: Automatically redirects cartridge exports to bulk unload areas or to an Active Vault based on user policies.

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

ENVIRONMENTAL

Electrical: 100–240 VAC, 2.0–4.0 KVA
Power: 80 Plus certified power supplies
Temperature: 15–32°C (59–90°F) operating
Humidity: 20% to 80% non-condensing operating

RELIABILITY

Library MSBF: Greater than 3,000,000
Library MTTR: 20 minutes, 10 minutes for Dual Robot replacement
Power: Optional 2/1 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 CE Scheme, EN62368-1 2nd Edition
Emissions: Class A: K303i, EH-27 Rev. 15, CEPHAK 23, EN55022, KN92, ICES-003
Immunity: EN55024, KN95

PHYSICAL

Module Type | HiWxW
---|---
Control Module (HiWxW) | 77.6” x 23.6” x 28.5” (197 cm x 60 cm x 72.5 cm)
Expansion Module (HiWxW) | 77.6” x 23.6” x 28.5” (197 cm x 60 cm x 72.5 cm)
Parking Module (HiWxW) | 77.6” x 23.6” x 28.5” (197 cm x 60 cm x 72.5 cm)

DRIVE CAPACITY AND PERFORMANCE

<table>
<thead>
<tr>
<th>Drive Type</th>
<th>Cartridge Capacity</th>
<th>Drive Throughput</th>
<th>Encryption Support</th>
<th>LIFS</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTO-7</td>
<td>6.0TB/5.0TB</td>
<td>300/750 MB/sec</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>LTO-6</td>
<td>2.5TB/2.25TB</td>
<td>160/400 MB/sec</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>LTO-5</td>
<td>1.5TB/1.3TB</td>
<td>120/290 MB/sec</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

* Assumes 2:1 compression for LTO-5. Assumes 2:1 compression for LTO-6 and LTO-7

ADVANCED FEATURES

Firmware Auto-leveling: Maintains consistent firmware across all tape drives in the library.
Active Vault: Vault archives 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 scavenging tapes.
Notifications on test results.
Policy-based data migration to new cartridges (only available with Scalar Storage Manager).
Dual Robots: Adds a second, redundant robot to the library for high availability.
Path Failover: Control Path Failover. Data Path Failover including support for path failure within the SAN stack.
Library Partitioning: Supports up to 14 partitions for tape consolidation.