



ATL Tape Libraries™

## ATL P-Series

### FEATURES AND BENEFITS

- Over three-million swaps for maximum reliability
- Prism Storage Architecture™ for integrated interface and management flexibility
- Up to 322 or 679 data cartridges in a single cabinet – highest density for efficient use of space
- Up to 10 or 16 tape drives in a single cabinet – highest performance in the smallest footprint
- Fibre Channel, Gigabit Ethernet (NDMP) or SCSI – able to adapt to any IT department's environment
- Supports LTO, SDLT and DLT8000 – investment protection for new technologies
- Up to 293TB<sup>1</sup> or 479TB<sup>2</sup> capacity – highly scalable
- Over 5TB<sup>1</sup> or 10TB/hr<sup>2</sup> of performance – meets stringent backup window limits
- Hot-swappable tape drives, power modules and fans – increases uptime and will not disrupt operations
- Remotely monitor and manage library status from any Web portal
- Instantly receive library status warnings via email or pager
- Pre-configured factory-built configurations mean quicker installations

### Introducing the Best-in-Class Automated Libraries

Quantum continues to define the standard in data protection with the ATL P4000 and ATL P7000 (ATL P-Series) tape automation storage systems. The ATL P-Series design revolutionizes how IT professionals solve their requirements for high growth and performance coupled with a rational investment.

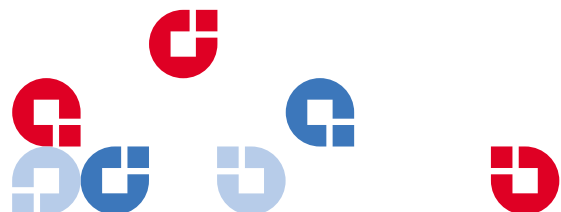
#### Flexible Architecture Retains Investment

The ATL P-Series libraries have been engineered to deliver flexibility in capacity, performance, and interfaces. By offering the highest density DLTtape™, Super DLTtape™ and LTO Ultrium™ tape library on the market, one can choose which drive type best suits your capacity and performance needs. Prism Storage Architecture™ ensures that the library can accept the latest interfaces and management options today and well into the future. To ensure a fit into any networking environment, the ATL P-Series libraries support SCSI, Fibre Channel and Gigabit Ethernet (NDMP) today, and for tomorrow, Quantum has been a pioneer in the development of iSCSI. The ATL P-Series Gigabit Ethernet (GbE) library has been used in iSCSI technology demonstrations and is iSCSI-ready. All management and interface options are embedded within the library architecture allowing for easier

management and control with one service contract to help eliminate finger pointing if any problems should arise. To further customize your library in an open systems environment, other options are available for remote monitoring and management and consolidation of heterogeneous environments<sup>3</sup>. For fast data growth environments, the expansion option is available to link up to five library frames together. This allows the system to grow, for both performance and capacity, while also being able to manage multiple library frames as one large system. The ATL P-Series libraries are flexible enough to meet the most demanding mission-critical environments and maintain the highest return on your investment.

#### Inherent Reliability for Maximum Uptime

Quantum's ATL P-Series libraries have been designed with reliability as a priority. Quantum's IntelliGrip™ technology helps to pick and place cartridges with extreme precision. This patented technology avoids dragging cartridges along any surfaces and, therefore, increases the reliability of the media and tape drives within the library. Exceeding typical industry standards, Quantum's ATL P-Series libraries have surpassed over three-



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million swaps, a significant industry benchmark. To further increase reliability, the ATL P-Series library frame is fully welded to minimize vibrations, which could negatively impact robotics accuracy. For environments that are sensitive to equipment uptime, redundant components, such as power supplies, fans, and power cords, are available features of the ATL P-Series library. These multiple levels of redundancy help to keep the library on-line in case of a power supply or fan failure. Should a power supply or fan fail, the extra component shares the load, eliminating the downtime that would have otherwise been caused by the failure. The downed component can then be replaced at a convenient time. For ease in servicing, the ATL P-Series library offers true hot-swap components so they can be replaced

while the library remains on-line. Each ATL P-Series library includes cable-less, user replaceable, hot-swap tape drives that do not interrupt any library operations, including data throughput on a single common SCSI bus. Additional hot-swap components include fans and power supplies.

### Optimized Value: Reducing Risk

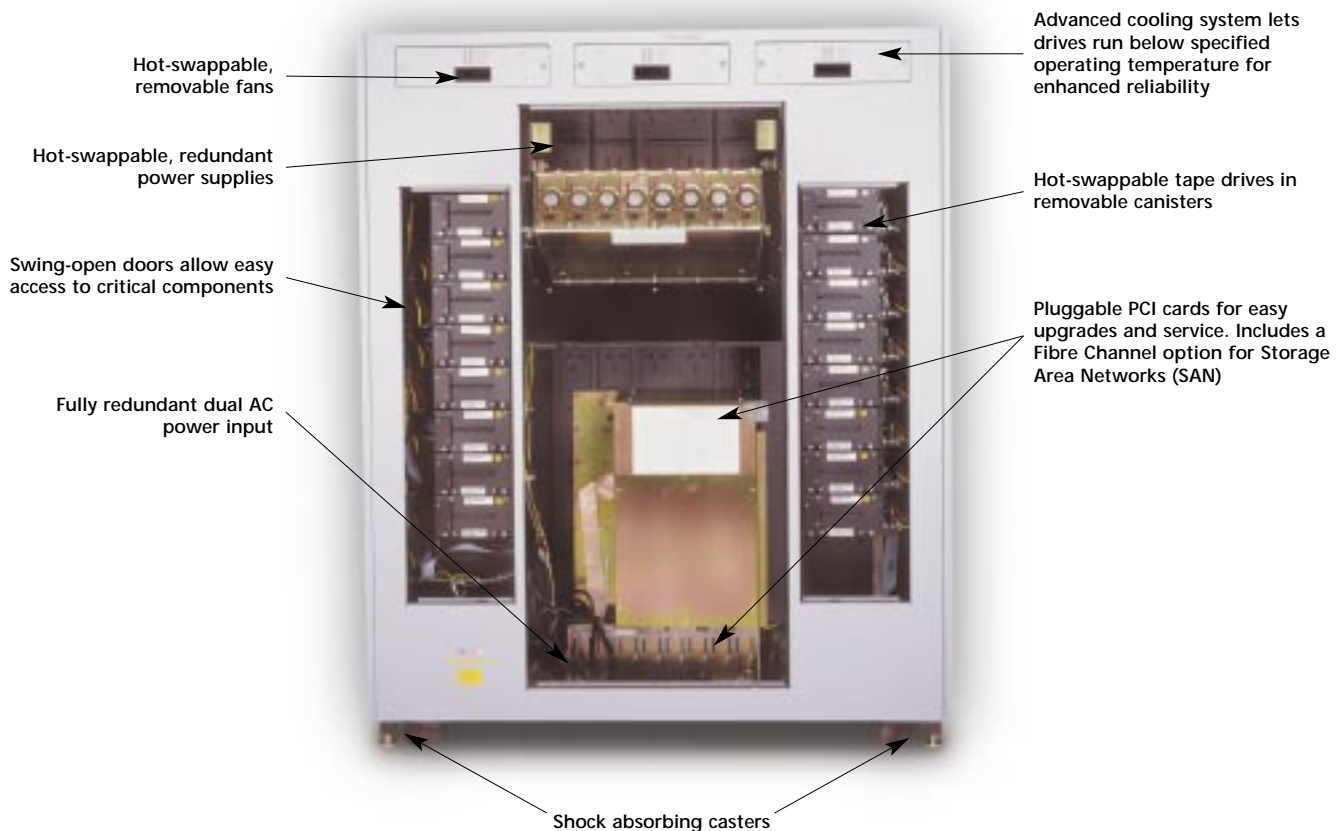
The ATL P-Series provides all of the features and functionality required for data-center operations. The value offered by the ATL P-Series reduces the risk of business interruption by directly improving bottom-line business results. Every design aspect has been optimized to provide savings in installation, power consumption, cooling requirements, floor space and service. By offering the highest data density on the market, valuable data center floor space can be

optimized to its' fullest. With up to 64.4TB<sup>4</sup> in a single ATL P4000 frame and up to 135.8TB<sup>4</sup> in a single ATL P7000 frame, the ATL P-Series offers the highest density per square footage in the market. Further savings are generated by the high reliability and availability of the ATL P-Series.

### Interoperability Tested for Compatibility

Quantum extensively tests, certifies and documents popular configurations to aid in successful implementations. Quantum maintains a fully equipped Interoperability Lab with many types of popular servers, networking equipment and software applications. Libraries are continually tested in multiple combinations to ensure complete end-to-end compatible solutions.

### ATL P-Series Rear View (door removed)




**Advanced Data Protection Solution for Medium-Sized Businesses  
ATL P4000 at a glance**

Max. Drives: 10

Max. Cartridge Slots: 322 (max. 8 drives with 322 slots)

Max. Native Capacity: 64.4TB with LTO-2

Max. Native Performance: 1.26TB/hr. with LTO-2 and 10 drives

The ATL P4000 tape library is the most cost-effective, high-performance storage solution for the enterprise data center. Starting at 100 slots, the ATL P4000 is ideal for medium-sized businesses that are budget sensitive yet have high-volume data growth. Its massive capacity and high availability design features define how IT professionals can meet their storage requirements.


**The Best-in-Class Data Protection Solution for the Enterprise Class  
ATL P7000 at a glance**

Max. Drives: 16

Max. Cartridge Slots: 679 (max. 8 drives with 679 slots)

Max. Native Capacity: 135.8TB with LTO-2

Max. Native Performance: 2TB/hr. with LTO-2 and 16 drives

The ATL P7000 is ideal for Fortune 500 businesses that demand only the best data protection solution for their mission-critical data. The ATL P7000 defines the standard in data tape automation by exceeding the competition in capacity, density, reliability, flexibility, and return on investment. Its fourth-generation design paired with hot-swappable components allow you to spend time running your operation instead of maintaining it.

**ATL P-SERIES TAPE DRIVE SPECIFICATIONS**
**Single ATL P4000 Chassis**
**Native Capacity (TB)**

Cartridges	Drives	DLT8000	SDLT 220	SDLT 320	LTO-1	LTO-2
322	1 to 8	12.9	35.4	51.5	32.2	64.4
316	1 to 10	12.6	34.8	50.6	31.6	63.2
171	1 to 8	6.84	18.8	27.4	17.1	34.2
165	1 to 10	6.60	18.2	26.4	16.5	33.0
100	1 to 10	4.00	11.0	16.0	10.0	20.0

**Maximum Configuration<sup>4,1</sup>**

1,466 <sup>1</sup>	42	58.6	161	235	147	293
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**Native Performance (GB/hr)**

Drives	DLT8000	SDLT 220	SDLT 320	LTO-1	LTO-2
1	21.6	39.6	57.6	54.0	126
8	173	317	461	432	1,008
10	216	396	576	540	1,260
42	907	1,663	2,419	2,268	5,292

**Single ATL P7000 Chassis**
**Native Capacity (TB)**

Cartridges	Drives	DLT8000	SDLT 220	SDLT 320	LTO-1	LTO-2
679	1 to 8	27.2	74.7	108	67.9	135
595	1 to 16	23.8	65.5	95.2	59.5	119
555	1 to 16	22.2	61.1	88.8	55.5	111
399	1 to 16	15.9	43.9	63.8	39.9	79.8

**Maximum Configuration<sup>4,2</sup>**

2,394 <sup>2</sup>	80	95.8	263	383	239	479
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**Native Performance (GB/hr)**

Drives	DLT8000	SDLT 220	SDLT 320	LTO-1	LTO-2
1	21.6	39.6	57.6	54.0	126
8	173	317	461	432	1,008
16	346	634	922	864	2,016
80	1,728	3,168	4,608	4,320	10,080

### StorageCare Product Warranty and Services

The ATL P-Series library includes a one-year Next Business Day (5x9xND) on-site warranty. Under the 5x9xNext Day warranty, a StorageCare™ Field Engineer responds on-site during the next business day, five days a week, nine hours a day (Monday-Friday, 8AM-5PM, local time, excluding Quantum or country holidays). In addition, Quantum offers a variety of StorageCare product installation, integration, on-site service and support options to complement your ATL P-Series library. Quantum's exclusive SiteCare™ service upgrades provide proactive maintenance on tape library storage and subsystems to substantially reduce downtime.

#### ATL P-SERIES PRODUCT SPECIFICATIONS

##### Robotics Reliability

MTBF	250,000 power-on hours
MSBF	3-million load/unload cycles (swaps)
MTTR	Less than 30 minutes

##### Host Interfaces

SCSI Interface	Ultra2 SCSI LVD 68-pin Micro D female connectors
Fibre Channel	Switched Fabric, Point-to-Point or Arbitrated Loop Multi-mode optical, SC connector
Gigabit Ethernet	NDMP or iSCSI <sup>1</sup> RJ-45 connectors

##### Library Configurations

	Drives	Slots
<b>ATL P4000</b>	1-10	100
	1-10	165
	1-10	316
	1-8	171
	1-8	322
<b>ATL P7000</b>	1-16	595
	1-16	555
	1-16	399
	1-8	679
Load port:	12 slots for SDLT and DLTtape, 8 slots for LTO Ultrium	

##### Power Input

Electrical Rating	100-240 VAC, 12A-6A, 50/60 Hz
Power Dissipation	<b>ATL P4000</b> 1,200W (10 drives, 2N power) <b>ATL P7000</b> 1,600W (16 drives, 2N power)
Heat Load	<b>ATL P4000</b> 4,100 BTU/hr <b>ATL P7000</b> 5,400 BTU/hr
Power Cord	US NEMA 5-20P male to IEC 320 C19 female, Rated 125 VAC, 20A Also available in international configurations.

##### Environmental

Operating	
Humidity	20% to 80%, noncondensing
Temperature	50°F to 90°F (10°C to 32°C)
Altitude	Sea level to 10,000 ft. (0 to 3,048 meters)
Non-operating (storage & shipping)	
Humidity	5% to 95%, noncondensing
Temperature	-40°F to 149°F (-40°C to 65°C)
Altitude	Sea level to 40,000 ft. (0 to 12,192 meters)

##### Cabinet Characteristics

Height	75in. (191cm)
Width	<b>ATL P4000</b> 40in. (102cm) <b>ATL P7000</b> 60in. (152cm)
Depth	29in. (74cm)
Weight	<b>ATL P4000</b> 1,072 lbs (486kg) <b>ATL P7000</b> 1,444 lbs (655kg)
Footprint	<b>ATL P4000</b> 7.9 sq. feet (2.4 sq. meters) <b>ATL P7000</b> 12.05 sq. feet (3.67 sq. meters)

##### Agency Approvals

Safety	UL1950 Listed, cUL, C22.2-No. 950, NEMKO-GS Mark
Emission	FCC Part 15 Class A, CE Mark VCCI Class A, AUSTEL

1. ATL P4000s linked together via Pass-Through Mechanism (PTM)

2. ATL P7000s linked together via Pass-Through Mechanism (PTM)

3. Please refer to the Prism data sheet posted on [www.quantum.com](http://www.quantum.com) for more details.

4. With LTO-2 tape drives, native capacity.

5. Please contact your Quantum Representative for availability.

**Quantum**  
**ATL P-Series**



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visit our website

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