

# Quantum®

## SuperLoader 3



### > DATASHEET

### Advanced Automation at an Affordable Price: Now with DATASTOR Shield Deduplication Software

Designed for simple and reliable backups, Quantum SuperLoader® 3 offers an exclusive package of advanced features, including StorageCare® Guardian, remote management, and barcode reader—all at no additional cost. It also gives you the widest range of drive options in the industry to support data requirements up to 3,840 TB—with the flexibility to expand as your storage needs grow.

Quantum SuperLoader 3 models now include DATASTOR Shield™ backup software with deduplication to supercharge your backup. Quantum and DATASTOR have teamed up to provide the first backup with deduplication straight to tape. This technology, which reduces backups significantly (up to 20x), allows you to store more data per tape than competitive models.

Quantum SuperLoader 3 delivers a full suite of advanced features at an affordable price—with easy integration, an intuitive user interface, and compatibility with a broad range of backup software packages. And because you can easily expand from 8 to 16 cartridge slots, your investment is protected as your needs grow.

Customers may also choose additional service level upgrades for maximum availability and faster response times.

### FEATURES & BENEFITS

- Compatible with all major backup software packages, environments, and infrastructures
- Backup with deduplication includes DATASTOR Shield backup software, which reduces data by 20x
- Only autoloader that supports 16 cartridges in a 2U rack-mount unit
- Access from any web-based browser for remote diagnostics, operations, software upgrades, and maintenance
- Removable magazine(s) provide fast, easy cartridge access
- Up to 480 TB\* of capacity with 2.5:1 compression; up to 3,840 TB of capacity with DATASTOR Shield
- Up to 2.7 TB/hr\* transfer rate
- Scalable from 8 to 16 cartridge slots
- 2U rack-mountable form factor
- State-of-the-art performance and energy efficiency
- Available with 6 Gb/sec SAS interfaces

*Reduce Data by 20x  
with included backup software!*

\*2.5:1 compression LTO-8, LTO-7 and LTO-6; 2:1 for LTO-5, 20:1 deduplication



> **LEARN MORE:**  
[www.quantum.com/superloader3](http://www.quantum.com/superloader3)

# TECHNICAL SPECIFICATIONS

## DRIVE CAPACITY AND PERFORMANCE

Drive Type	Media Type	Autoloader Capacity Native/Compressed/ Deduplicated <sup>1</sup> (TB)	Performance Native/Compressed/ Deduplicated <sup>1</sup> (TB/hr)
LTO-8	LTO-8 (L8)	192 / 480 / 3,480	1.08 / 2.70 / 21.60
LTO-8	LTO-7 (M8) <sup>2</sup>	144 / 360 / 2,880	1.08 / 2.70 / 21.60
LTO-7HH	LTO-7 (L7)	96 / 240 / 1,920	1.08 / 2.70 / 21.60
LTO-6HH	LTO-6 (L6)	40 / 100 / 800	0.576 / 1.44 / 11.52
LTO-5HH	LTO-5 (L5)	24 / 48 / 480	0.504 / 1.0 / 10.0

<sup>1</sup>2.5:1 compression LTO-8, LTO-7 and LTO-6; 2:1 for LTO-5, 20:1 deduplication

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

## HOST INTERFACE

6 Gb/sec SAS

## BACKUP SOFTWARE

<b>Included Software:</b>	DATASTOR Shield Single-Server Backup
<b>Deduplication Rate:</b>	20:1 (typical)
<b>Software Compatibility:</b>	Windows only
<b>Backup Methods:</b>	Disk-to-disk-to-tape, disk-to-tape, archive-to-tape in native format
<b>Upgradeable:</b>	Yes to multiple servers, SQL, Exchange, SharePoint, Bare Metal, Cloud, and other functionality

## RELIABILITY

<b>MSBF:</b>	1.5 million
<b>MTRR:</b>	<30 minutes
<b>Cartridge Capacity:</b>	8 or 16 cartridges
<b>Management Requirements:</b>	Integrated web-based management standard on all SuperLoader 3 products
<b>Power Requirements:</b>	90-256 VAC

## PHYSICAL

<b>Width (in/cm)</b>	16.7 / 42.42
<b>Height (in/cm)</b>	3.41 / 8.66
<b>Length (in/cm)</b>	27.5 / 69.85
<b>Weight (lb/kg)</b>	31 / 14.06

## WARRANTY

One-year rapid exchange

## OPERATIONS

<b>Cartridge Loader:</b>	Single front-loader slot (import port) and bulk cartridge loading in removable active magazines
<b>On-board Remote Management Tools:</b>	10BASE-T/100BASE-T Ethernet
<b>Available Operations:</b>	Review System Status, Remote Diagnostics, Browse System Logs, Configuration, Firmware Upgrades, Drive Operations, Remote Management, Check Inventory, System Upgrades Standard
<b>Barcode Reader:</b>	

## ENVIRONMENTAL

<b>Temperature Range (Dry Bulb):</b>	Operating +10 °C to +35 °C Non-operating -40 °C to +65 °C
<b>Temperature Variation:</b>	Operating 10 °C per hour Non-operating 20 °C per hour
<b>Humidity:</b>	Operating 20% to 80% non-condensing humidity Non-operating 10% to 90% non-condensing humidity Gradient 10% per hour without condensation
<b>Wet Bulb:</b>	Operating 26 °C maximum Non-operating 29 °C maximum
<b>Altitude:</b>	Operating -500 feet to 10,000 feet (-153 m to 3,048 m) Non-operating -500 feet to 40,000 feet (-153 m to 12,192 m)

## COMPLIANCE AND CERTIFICATIONS

<b>Safety Standards:</b>	US (UL 1950), Canada (CSA 22.2 No. 950), Europe (EN 60950/IEC 950), EMI/RFI ECC Directive 89/336 CD BS 6527 (UK) EN 55022 (EU) EN 55024 (EU) CFR 47, 1995 FCC Rules Part 15B Class B (MDOC) IEC-003 Canada V-3/97.04 VCCI Class B (Japan) AS/NZS 3548 Australia/New Zealand (C-Tick Mark) CNS 13438 BSMI Class A Taiwan CD, VCCI, UL, FCC, CSA
<b>Agency Markings:</b>	

## COMPATIBILITY

<b>Software/Hardware:</b>	For information on the most up-to-date tested solutions, visit <a href="http://www.quantum.com">www.quantum.com</a> .
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## Model Numbers and Descriptions

<b>EC-LLPAE-YF-C</b>	LTO-5HH SAS, 8 Slots/1 Magazine	<b>E7-L2PAE-HF-C</b>	LTO-5HH SAS, HBA (6 Gb/sec, PCIe), 10 pcs Media, 16 Slots/2 Magazines	<b>ET-LLZAE-YF</b>	LTO-8HH SAS, 8 Slots/1 Magazine
<b>EC-L2PAE-YF-C</b>	LTO-5HH SAS, 16 Slots/2 Magazines	<b>E7-L2SAE-HF-C</b>	LTO-6HH SAS, HBA (6 Gb/sec, PCIe), 10 pcs Media, 16 Slots/2 Magazines	<b>ET-L2ZAE-YF</b>	LTO-8HH SAS, 16 Slots/2 Magazine
<b>E7-LLSAE-YF-C</b>	LTO-6HH SAS, 8 Slots/1 Magazine	<b>E7-L2YAE-HF</b>	LTO-7HH SAS, HBA (6 Gb/sec, PCIe), 10 pcs Media, 16 Slots/2 Magazines	<b>ET-L2ZAE-HF</b>	LTO-8HH SAS, HBA (6 Gb/sec, PCIe), 10 pcs Media, 16 Slots/2 Magazine
<b>E7-L2SAE-YF-C</b>	LTO-6HH SAS, 16 Slots/2 Magazines				
<b>E7-LLYAE-YF</b>	LTO-7HH SAS, 8 Slots/1 Magazine				
<b>E7-L2YAE-YF</b>	LTO-7HH SAS, 16 Slots/2 Magazines				

\*European models with LTO have -YE instead of -YF, or -HE instead of -HF.

## 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](http://www.quantum.com/customerstories).

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# Quantum®

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