Small Sites Require Offline Data Protection

Data growth does not limit itself to larger data centers. Smaller data centers face the same challenges of protecting terabytes of data from loss, malware, and potential damage to facilities in central and remote locations with limited IT staff.

Tape storage is the perfect backup and archive media to address all the retention, protection, and compliance requirements of small to medium businesses. Tape is also economical, portable, and provides air-gapped protection against ransomware. With tape storage, you can manage backups and long-term data in a simple to install and operate 2U rack-mounted automated tape system that can be left unattended or be easily managed by IT staff who have limited tape library training to deliver strong offline data protection to meet all your compliance requirements.

Efficient Data Protection

Quantum’s SuperLoader® 3 puts the power and economy of the latest in LTO tape technology into a low-profile, affordable, easy-to-manage automated backup and archive appliance. It scales easily as data grows, supports backup volumes up to 720* TB of capacity in a 2U form factor, and with the included DATASTOR Shield backup software with deduplication, you can reduce your data by up to 20x, so that you can store more data per tape than in other competitive models.

Quantum SuperLoader 3 also includes a bar-code reader as a standard feature to simplify media management. To simplify administration, it comes with management software that uses intelligent diagnostics to monitor the system over the Internet and provide proactive remote support.

*Assumes 2.5:1 compression for LTO-9, LTO-8, and LTO-7, 20:1 deduplication for DATASTOR Shield
Quantum SuperLoader 3 | Technical Specifications

DATASHEET

QUANTUM SUPERLOADER 3 SPECIFICATIONS

Configuration:
2U Rackmount, Single Tape Drive

Number of Tape Slots: 8 or 16

Dimensions
Width: 177 in / 45 cm
Height: 3.5 in / 8.5 cm
Length: 29.71 in / 75.46 cm
Weight: 50 lb / 22.7 kg

Drive Type Offered:
LTO-9 HH SAS, LTO-8 HH SAS, LTO-7 HH SAS - See table below for drive specifications

Backup Software Included:
DATASTOR Backup Software

Other Items Included:
One LTO HH Drive, one or two eight-cartridge removable magazines, (3) Data and (5) Cleaning Bar Code labels; Two M SAS-mini cable, NAM, UK, EMEA power cord

SUPERLOADER 3 TAPE DRIVE OPTIONS AND SPECIFICATIONS

<table>
<thead>
<tr>
<th>Drive Generation:</th>
<th>LTO-9 HH Tape Drives</th>
<th>LTO-8 HH Tape Drives</th>
<th>LTO-7 HH Tape Drives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Media Compatibility:</td>
<td>Read/Write to LTO-9 and LTO-8 media</td>
<td>Read/Write to LTO-8, LTO-7 MB, and LTO-7 media</td>
<td>Read/Write to LTO-7 and LTO-6 media, read from LTO-5 media</td>
</tr>
</tbody>
</table>

Connectivity:
12 Gb SAS
6 Gb SAS
6 Gb SAS

Sustained Transfer Rate, Native
300 MB/s
600 MB/s
300 MB/s
300 MB/s

Performance, Native/Compressed/Deduplicated (TB/hr):
108 / 270 / 2160
108 / 210 / 2160
108 / 210 / 2160

SuperLoader 3 products

ADDITIONAL SUPERLOADER 3 SPECIFICATIONS

OPE RATIONS

Cartridge Loader:
Single front-loader slot (import port) and bulk cartridge loading in removable active magazines

On-board Remote Management Tools:
10 BASE-T / 100 BASE-T Ethernet
10 BASE-T / 100 BASE-T Ethernet
10 BASE-T / 100 BASE-T Ethernet

Available Operations:
Review System Status, Remote Diagnostics, Browse System, Logs, Configuration, Firmware Updates, Drive Operations, Remote Management, Check Inventory, System Upgrade

Barcode Reader:
Standard

Host Interface Type:
LTO-9 only: 12 Gb SAS SFF-8644, 6 Gb SAS SFF8088

RELIABILITY

MSBP:
15 million

MTTR:
<30 Minutes

Power:
90-256 VAC

Management Requirements:
Integrated web-based management standard on all SuperLoader 3 products

Load/Unload Life:
LTO-8, LTO-7: 80,000 cycles; LTO-9: HH TBD

Non-Recoverable Error Rate:
1 x 109 bits / LTO-9, LTO-7 non-media error, clean drive

Archive Storage:
30 Years

Durability:
20,000 load/unload cycles

OPERATIONAL/STORAGE ENVIRONMENTAL REQUIREMENTS

Environmental Factor:

<table>
<thead>
<tr>
<th>LTO-6, LTO-7, LTO-8:</th>
<th>16 to 25 °C (61 to 77 °F)</th>
<th>85% to 95% RH</th>
</tr>
</thead>
</table>

Dry-Bulb Temperature:
LTO-9: 15 to 25 °C (59 to 77 °F)

Relative Humidity:
20 to 50% (non-condensing)

Maximum Temperature Change:
5 °C / hour

Maximum Humidity Change:
5% / hour

Temperature Limitation for Humidity Conditions:
LTO-6, LTO-7, LTO-8: Wet Bulb Temperature <= 26 °C (79 °F)
LTO-9: Max Dew Point 22 °C (72 °F)

Maximum Temperature:
3.048 m (10,000 ft)
3.048 m (10,000 ft)
12,192 m (40,000 ft)

SAFETY STANDARDS AND CERTIFICATIONS

Safety Standards:
IEC 60950-1 and IEC 62368-1 with worldwide deviations, EN62368-1, UL 62368-1, CNS14331-6

Emissions Standards:
FCC Part 15 Class A, EN 55032 Classe A, EN 55032 Classe A

Immunity Standards:
EN 55024, EN 55024 Classe A, EN 55024 Classe A

International Certifications:
ETIHAD (UAE) and Canada, FCC (US), KCC (Korea), BSM (Taiwan), IEC (Europe), REACH (European Union), GS (Germany), VCCI (Japan), VCCI (Japan), RCM (Australia/New Zealand)

Agency Markings:
CS, CE, FCC, VCCI, UL, CCM, BSMI (Taiwan), CSA (Canada), BSMI (Taiwan), RCM (Australia/New Zealand)

<30 Minutes

Quantum technology, software, and services provide the solutions that today's organizations need to make video and other unstructured data smarter – so their data works for them and not the other way around. With over 40 years of innovation, Quantum's end-to-end platform is uniquely equipped to orchestrate, protect, and enrich data across its lifecycle, providing enhanced intelligence and actionable insights. Leading organizations in cloud services, entertainment, government, research, education, transportation, and enterprise IT trust Quantum to bring their data to life, because data makes life better, safer, and smarter. Quantum is listed on Nasdaq (QMCO) and the Russell 2000® Index. For more information visit www.quantum.com

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