

# SNTRYVTL™

Virtual Tape Library

QStar has combined tape device emulation software with the SntryStr hard disk appliance architecture to provide a superior archival backup solution. SntryVTL is faster, more flexible, more robust, and more cost-effective than a pure tape backup.

Exponential data growth, shrinking backup windows, fast data restores, and new government regulations make data protection a challenge for any storage manager. The SntryVTL Disaster Prevention Appliances solve these challenges by providing fast, reliable data backup and recovery.

SntryVTL is a backup appliance solution that offers all the convenience of tape methodology with the speed and reliability of hard disks. Access to files using SntryVTL is instant and more reliable than solely using a tape device.

Combine our SntryVTL disaster prevention appliances with any supported tape libraries or autoloaders for a complete disk backup and recovery and archive solution, or as a cost-saving virtual tape library (VTL).

## HIGHLIGHTS

- › Simplify the Backup Process
- › Virtually eliminate tape backup job failures
- › Regain your backup window
- › Re-deploy staff resources used for monitoring tape backup
- › Fast online data restore
- › Reduce or eliminate tape media costs
- › Avoid disadvantages of host-based backup
- › Simple deployment: An integrated Plug-and-Play Virtual Tape Library appliance



## FEATURES AND BENEFITS

Fibre Channel Connectivity and iSCSI

**Simple deployment:** An integrated Plug-and-Play Virtual Tape Library appliance

Seamlessly scales from 2 TB to 96 TB of RAID capacity

Partition into **multiple logical libraries** and virtual tape drives

- Up to 16 Virtual Libraries
- Up to 256 Virtual Drives

Default Emulation is LTO

- User can select other popular drive types

Supports **T10 library control** standard as a default

- User can select other library emulations as needed

**Virtual Barcode assigned** via SntryVTL back to backup software

Runs in the background so **not to affect backup window times**

**Tested** with many popular backup packages

- Contact QStar to check if your backup package is already supported

## The SntryVTL provides:

### Flexible Functionality

SntryVTL disk disaster prevention appliances can be easily configured as a virtual tape library or as standalone virtual tape drives.

### Easy Integration

compatible with all popular open systems or Windows-based backup software, physical tape drives or tape libraries and easily connects to Ethernet (iSCSI) or Fibre Channel networks for seamless integration into existing backup environments.

### Disk Backup Performance

when configured as virtual tape, data is written sequentially and in large blocks for fast, reliable disk backup and recovery operations.

# Specifications

**SNTRYVTL™**

Virtual Tape Library



QVTL-2000



QVTL-6000



SYSTEM FEATURES		
Capacity (Raw)	<ul style="list-style-type: none"> <li>From 1 to 2 TB</li> </ul>	<ul style="list-style-type: none"> <li>From 2 to 96 TB</li> </ul>
Drive	<ul style="list-style-type: none"> <li>Max 2 drives (hot swappable)</li> </ul>	<ul style="list-style-type: none"> <li>Max 6 drives (hot swappable)</li> </ul>
Model #	<ul style="list-style-type: none"> <li>QVTL – 2000/01: 1 TB (2 x 500 GB)</li> <li>QVTL – 2000/02: 1.5 TB (2 x 750 GB)</li> <li>QVTL – 2000/03: 2 TB (2 x 1 TB)</li> </ul>	<ul style="list-style-type: none"> <li>QQVTL – 6000/01: 2 TB (4 x 500 GB)</li> <li>QQVTL – 6000/02: 3 TB (6 x 500 GB)</li> <li>QQVTL – 6000/03: 3 TB (4 x 750 GB)</li> <li>QQVTL – 6000/04: 4.5 TB (6 x 750 GB)</li> <li>QQVTL – 6000/05: 4 TB (4 x 1 TB)</li> <li>QQVTL – 6000/06: 6 TB (6 x 1 TB)</li> </ul>
RAID	<ul style="list-style-type: none"> <li>RAID 1</li> </ul>	<ul style="list-style-type: none"> <li>RAID 5</li> </ul>
Built-in Storage	<ul style="list-style-type: none"> <li>CD-RW/DVD ROM</li> </ul>	<ul style="list-style-type: none"> <li>CD-RW/DVD ROM</li> </ul>
Setup and Configuration	<ul style="list-style-type: none"> <li>Web Based user interface for system administration</li> </ul>	<ul style="list-style-type: none"> <li>Web Based user interface for system administration</li> </ul>
Storage Management	<ul style="list-style-type: none"> <li>Policy based tiered storage management</li> <li>Integrated support for on, near, and off line data management</li> <li>Policy based data retention and deletion</li> </ul>	<ul style="list-style-type: none"> <li>Policy based tiered storage management</li> <li>Integrated support for on, near, and off line data management</li> <li>Policy based data retention and deletion</li> </ul>
Network Connection	<ul style="list-style-type: none"> <li>Dual port auto-sensing gigabit NIC</li> <li>Automatic IP address assignment</li> <li>Supports DHCP, ARP</li> </ul>	<ul style="list-style-type: none"> <li>Dual port auto-sensing gigabit NIC</li> <li>Automatic IP address assignment</li> <li>Supports DHCP, ARP</li> </ul>
Interface	<ul style="list-style-type: none"> <li>Fibre card (optional)</li> <li>iSCSI Standard</li> <li>Adaptec 29320 SCSI PCI Express Adapter</li> </ul>	<ul style="list-style-type: none"> <li>Up to 6 expansion storage units with 15 drives (hot swap)</li> <li>Fibre card (optional)</li> <li>iSCSI support</li> <li>Adaptec 29320 SCSI PCI Express Adapter</li> </ul>
CPU	<ul style="list-style-type: none"> <li>Intel Dual Core Xeon Processor</li> <li>Up to 4 MB DDR RAM</li> </ul>	<ul style="list-style-type: none"> <li>Intel Dual Core Xeon Processor (supports up to two)</li> <li>Up to 4 MB DDR RAM</li> </ul>
RAM (Included)	<ul style="list-style-type: none"> <li>2 GB upgradable to 32 GB</li> </ul>	<ul style="list-style-type: none"> <li>2 GB upgradable to 32 GB</li> </ul>
Graphics	<ul style="list-style-type: none"> <li>Integrated ATI ES1000 controller with 16MB of SDRAM</li> </ul>	<ul style="list-style-type: none"> <li>Integrated ATI ES1000 controller with 16MB of SDRAM</li> </ul>

SPECIFICATIONS		
Built in Support for Archive Storage	<ul style="list-style-type: none"> <li>3 TB</li> </ul>	<ul style="list-style-type: none"> <li>6 TB</li> </ul>
Agency Certifications	<ul style="list-style-type: none"> <li>CAN/CSA C22.2 No. 60950-1, CSAus, FCC Class A, CE IHE, VCCI, BSMI, C-Tick Class A, SABS, Class A, CCC Class A, MIC Class A, UL 60950-1, EN 60950-1, IEC 60950-1</li> </ul>	<ul style="list-style-type: none"> <li>CAN/CSA C22.2 No. 60950-1, CSAus, FCC Class A, CE IHE, VCCI, BSMI, C-Tick Class A, SABS, Class A, CCC Class A, MIC Class A, UL 60950-1, EN 60950-1, IEC 60950-1</li> </ul>
Physical	<ul style="list-style-type: none"> <li>1U Rack-mountable chassis</li> <li>Width: 16.7" (42.6cm)</li> <li>Height: 1.67" (4.26cm) with bezel attached</li> <li>Depth: 30.4" (77.2cm)</li> <li>Weight: 35.8 lbs (16.3 Kg), maximum configuration</li> </ul>	<ul style="list-style-type: none"> <li>2U Rack-mountable chassis</li> <li>Width: 17.5" (44.43cm)</li> <li>Height: 3.4" (8.64cm) with bezel attached</li> <li>Depth: 29.31" (74.4cm)</li> <li>Weight: 50.71 lbs (23 Kg), maximum configuration</li> </ul>
Power	<ul style="list-style-type: none"> <li>AC configuration with standard single or redundant 750W hot-plug auto-switching universal 110/220V AC power supplies</li> </ul>	<ul style="list-style-type: none"> <li>AC configuration with standard single or redundant 750W hot-plug auto-switching universal 110/220V AC power supplies</li> </ul>
Operating Environment	<ul style="list-style-type: none"> <li>Operating Temperature: 10° C to 35° C (50° F to 95° F)</li> <li>Operating Relative Humidity (non-condensing twmax=29C): 20% to 80% non-condensing</li> <li>Operating Vibration: 0.26G at 5Hz to 350Hz for 2 minutes</li> <li>Operating Shock: 1 shock pulse of 41G for up to 2ms</li> <li>Operating Altitude: -16 to 3,048m (-50 ft to 10,000 ft)</li> </ul>	<ul style="list-style-type: none"> <li>Operating Temperature: 10° C to 35° C (50° F to 95° F)</li> <li>Operating Relative Humidity (non-condensing twmax=29C): 20% to 80% non-condensing</li> <li>Operating Vibration: 0.26G at 5Hz to 350Hz for 2minutes</li> <li>Operating Shock: 1 shock pulse of 41G for up to 2ms</li> <li>Operating Altitude: -16 to 3,048m (-50 ft to 10,000 ft)</li> </ul>
Non-operating Environment	<ul style="list-style-type: none"> <li>Storage Temperature: -40° C to 65° C (-40° F to 149° F)</li> <li>Storage Relative Humidity: 5% to 95% non-condensing (twmax=38C)</li> <li>Maximum humidity gradient: 10% per hour, operational and non-operational conditions.</li> <li>Storage Vibration: 1.54Grms Random Vibration at 10Hz to 250Hz for 15 minutes</li> <li>Storage Shock: 6 shock pulses of 71G for up to 2ms</li> <li>Storage Altitude: -16m to 10,600m (-50 ft to 35,000 ft)</li> </ul>	<ul style="list-style-type: none"> <li>Storage Temperature: -40° C to 65° C (-40° F to 149° F)</li> <li>Storage Relative Humidity: 5% to 95% non-condensing (twmax=38C)</li> <li>Maximum humidity gradient: 10% per hour, operational and non-operational conditions.</li> <li>Storage Vibration: 1.54Grms Random Vibration at 10Hz to 250Hz for 15 minutes</li> <li>Storage Shock: 6 shock pulses of 71G for up to 2ms</li> <li>Storage Altitude: -16m to 10,600m (-50 ft to 35,000 ft)</li> </ul>



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