

# SNTRYSTR XPRESS™

The SntrySTR Xpress™ has been designed to meet the special data archiving needs of small and medium sized businesses. Based on QStar's enterprise class SntrySTR technology, the Xpress is a network attached appliance that combines the performance and simplicity of RAID with the data longevity of Blu-ray™ disc media.

The tiered storage architecture of the Xpress provides smaller organizations with the benefits of professional archive management in a low cost desktop solution. The Xpress comes fully configured with up to 6TB of RAID-protected online storage and an integrated Blu-ray disc recorder to create secure offline copies of the entire archive.

## Archive Appliance Solution

SntrySTR Xpress is presented through a Network Attached Storage (NAS) interface which appears as a standard share on the network. This means that the installation and management of the Xpress couldn't be simpler. Completely pre-configured with QStar's proven data and media management software, the Xpress can be up and running in a few minutes.

User defined online archive volumes allow organizations to manage their growing data retention needs. Typical applications include: electronic or scanned documents, medical images, videos, financial records and digital photography. The seamless integration of RAID and Blu-ray storage enables the creation of "bookshelf" archives containing important business records that can be safely stored offsite for future access or disaster recovery.

Not only does the offline management of Blu-ray media use significantly less power and cooling than magnetic disk storage, it also eliminates the need for costly and repetitive backup operations. The Xpress provides the performance of fast archive access since all data is retained online, and the security of a second offline copy on Blu-ray media.

### Archive Flexibility

The SntrySTR Xpress supports both BD-R (WORM - Write Once Read Many) and BD-RE (Rewritable) Blu-ray media technology. BD-R media is ideally suited for legally sensitive environments where data authenticity is essential since records written to WORM media cannot be altered or destroyed.

By default, the Xpress writes all archive data to Blu-ray media using QStar's optimized SDF file system. This format provides performance and efficiency benefits with both standalone Blu-ray drives and with automated libraries. Alternatively, customers can choose to deploy a UDF file system as part of an upgrade option. The UDF file system uses an industry standard format which allows Blu-ray disks written on the Xpress to be read outside of a QStar software environment.

## HIGHLIGHTS

- › **Enterprise class** archiving at an SMB price
- › **Simple to install** and manage
- › **Fast archive access** direct from RAID storage
- › Unmatched data longevity using robust **Blu-ray media**
- › **Eliminates costly backup** overheads for archive data
- › **Removable media** provides secure offsite disaster recovery
- › WORM media meets **strict data authenticity requirements**
- › **Investment protection** through cost-effective system upgrades
- › **Reduced electricity consumption** and carbon emissions
- › Ideal for a **wide range of applications** and file types



# SNTRYSTR XPRESS™

Storage Archive Appliances

## Archive Evolution

Investment protection is fundamental to the design of the SntrySTR Xpress. QStar knows that archive requirements evolve over time, demanding extra capacity and more sophisticated functionality. The Xpress can easily be upgraded to an enterprise class SntrySTR, meeting future archive needs without major capital investment and disruptive system replacement. Through the use of software license keys and hardware expansion, archive capacity can be increased by adding additional RAID storage or an automated Blu-ray library.



SYSTEM FEATURES	
<b>Capacity</b>	<ul style="list-style-type: none"> <li>• 1 to 6TB raw storage</li> </ul>
<b>Drive</b>	<ul style="list-style-type: none"> <li>• Maximum 6 drives (hot swappable)</li> </ul>
<b>Model #</b>	<ul style="list-style-type: none"> <li>• QSX – 310/01: 1TB (2 x 500GB) RAID 1</li> <li>• QSX – 310/02: 2TB (2 x 1TB) RAID 1</li> <li>• QSX – 310/03: 4TB (4 x 1TB) RAID 1</li> <li>• QSX – 310/04: 4TB (4 x 1TB) RAID 5</li> <li>• QSX – 310/05: 6TB (6 x 1TB) RAID 5</li> </ul>
<b>RAID</b>	<ul style="list-style-type: none"> <li>• RAID 1 or 5 (PERC 6/i controller)</li> </ul>
<b>Built-in Storage</b>	<ul style="list-style-type: none"> <li>• Blu-ray and DVD ROM drives</li> </ul>
<b>Setup and Configuration</b>	<ul style="list-style-type: none"> <li>• Web Based user interface for system administration</li> </ul>
<b>Storage Management</b>	<ul style="list-style-type: none"> <li>• Web Based tiered storage management</li> <li>• Integrated support on, near and off line management</li> <li>• Policy based data retention and deletion</li> </ul>
<b>Network Connection</b>	<ul style="list-style-type: none"> <li>• 1 Dual port Broadcom BCM 5716</li> <li>• Automatic IP address assignment</li> <li>• Supports DHCP, ARP</li> </ul>
<b>Interface</b> <b>5 PCI slots</b>	<ul style="list-style-type: none"> <li>• 2 x PCIe x8 (x4 routing, Gen2), half length</li> <li>• 2 x PCIe x8 (x4 routing, Gen2), full length</li> <li>• 1 x PCIe x16 (x8 routing, Gen2), half length</li> </ul>
<b>CPU</b>	<ul style="list-style-type: none"> <li>• Up to 2 Quad-Core Intel® Xeon® 5500 Processor Series</li> </ul>
<b>RAM</b>	<ul style="list-style-type: none"> <li>• 2GB upgradable to 64GB DDR RAM</li> </ul>
<b>Graphics</b>	<ul style="list-style-type: none"> <li>• Matrox G200</li> </ul>

SPECIFICATIONS	
<b>Built in Support for Archive Storage</b>	<ul style="list-style-type: none"> <li>• Matched to internal disk capacity</li> </ul>
<b>Agency Certifications</b>	<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>
<b>Physical</b>	<ul style="list-style-type: none"> <li>• 17.52 x 8.58 x 24.28 (in) – 444.9 x 217.9 x 616.8 (mm)</li> </ul>
<b>Power</b>	<ul style="list-style-type: none"> <li>• Non-Redundant, 525W</li> <li>• Optional Redundant, 580W</li> </ul>
<b>Operating Environment</b>	<ul style="list-style-type: none"> <li>• Operating Temperature: 10° C to 35° C (50° F to 95° F)</li> <li>• Operating Relative Humidity: 20% to 80% non-condensing (twmax=29C)</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>
<b>Non-operating Environment</b>	<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>



SECURING THE FUTURE OF YOUR DATA™

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