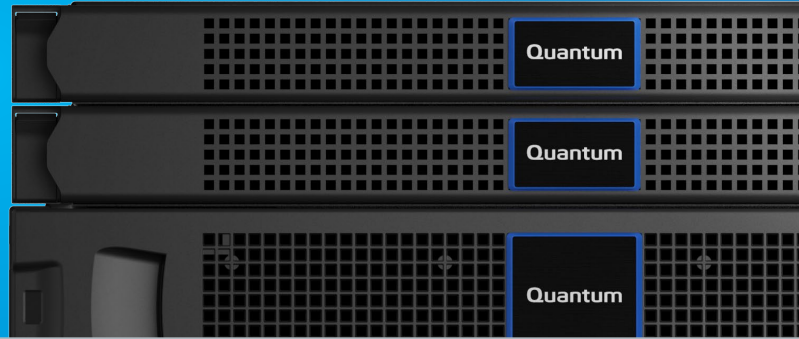


# Xcellis

## Scale-out & Workflow Storage



### > DATASHEET

## The Foundation for New Video Surveillance and Security Infrastructures

Security and law enforcement professionals are facing the challenges created by more cameras, higher resolutions, and increasingly complex analytics. Quantum's solutions for Video Surveillance offer an intelligent, scalable storage platform that provides a simple-to-manage foundation, which can grow under a single file system, designed specifically for video applications. Our intelligent solution leverages different tiers of storage, maintaining transparent and direct access to video content. A single, accessible file system eliminates the need for extra IT help, allowing you to spend less on storage so you can spend more on other surveillance tools in your workflow.

### STORE MORE VIDEO, SPEND LESS MONEY

Xcellis™ optimizes security and surveillance infrastructures and shared access by combining functions that were formerly provided by separate components into a compact, space- and energy-saving solution. Xcellis manages high-speed disk for the most demanding workflows, multi-protocol SAN and LAN client access, single-pane-of-glass management and monitoring, and automatic data movement to low-cost storage such as cloud, object, and file-based tape. Xcellis maximizes operational and workflow efficiency, while simultaneously reducing the cost of data storage.

## FEATURES & BENEFITS

### High Performance

Video storage that supports higher resolutions, increased camera & sensor counts, and real-time analytics, utilizing Quantum's heritage of managing video-based data.

### Low-Cost Capacity

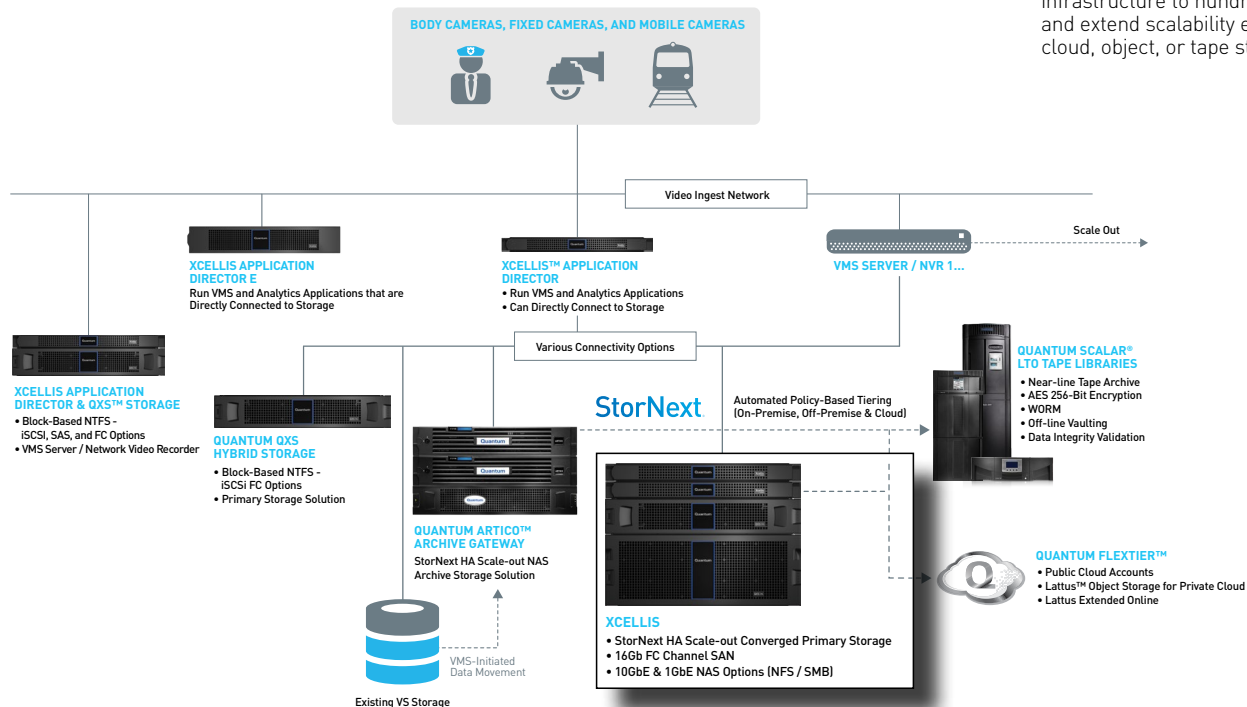
A multi-tier solution delivers total capacity more cost-effectively and the scalability to grow with requirements, leaving project dollars for other surveillance tools.

### Direct Access

Data accessibility is as easy as looking for a document on a C: drive, allowing users to get information when needed, no matter what tier of storage it is on. This minimizes IT intervention, keeping security & law enforcement professionals focused on safety, not managing data.

### Scale With Storage Needs

Multi-tier storage provides virtually unlimited capacity, with support for billions of files. Scale your storage infrastructure to hundreds of petabytes and extend scalability even further using cloud, object, or tape storage.



# TECHNICAL SPECIFICATIONS

## SYSTEM

<b>Workflow Director Nodes</b>	Dual rack servers Redundant power supplies Dual six-core high-performance Intel E5 v3 CPUs
<b>Workflow Director Storage</b>	Quantum QXS-4 Dual redundant high-performance controllers Quad 16Gb Fibre Channel per controller (eight ports total) Available in 2U12, 2U24, and 4U56 options
<b>Storage Support</b>	Supports Quantum QXS storage for combined metadata and data options; Quantum or 3rd-party storage for user data*

\*3rd-party user data storage requires dedicated Quantum QXS metadata storage.

## LICENSING

<b>Included StorNext® Software</b>	StorNext High Availability License Option, ten SAN clients available to the user for any OS type, one embedded SAN client for each Xcellis Workflow Director Node, and a Distributed Data Mover license (for the secondary node)
<b>Optional NAS Connectivity License</b>	Allows connection of SMB and NFS clients directly to Xcellis; does not require per-client licensing
<b>Optional StorNext LAN Gateway License</b>	Allows connection of StorNext LAN clients directly to Xcellis; does not require per-client licensing




## CONNECTIVITY OPTIONS

<b>Fibre Channel</b>	Quad 16Gb Optical, Dual 16Gb Optical, or Quad 8Gb Optical
<b>Onboard Ethernet</b>	Quad 1Gb for service, management, and metadata networks
<b>Optional Ethernet</b>	Up to two additional NICs for StorNext LAN, NAS, public cloud, and Lattus™ or other object storage connections Choose from quad 1GbE, dual 10GbE, or dual 40GbE 10GbE and 40GbE in Optical or Twinax
<b>Optional InfiniBand</b>	Up to two additional NICs for dual QSFP FDR Infiniband connectivity
<b>Client Protocol Support</b>	StorNext SAN, StorNext LAN, SMB 1 (CIFS), SMB 2, SMB 3, NFS v3, NFS v4 Active Directory, OpenLDAP, RESTful API
<b>Client Support</b>	Linux, Mac OS X, Windows, AIX (see compatibility document for details)





## MULTI-TIER OPTIONS

<b>Extended Online</b>	Quantum Lattus-M low-latency, massively scalable object storage Support for third-party object storage using StorNext Storage Manager (see compatibility document for details)
<b>Tape Archive</b>	StorNext AEL500, StorNext AEL6000 tape archive Scalar i3/i6 tape libraries 3rd-party tape archive systems also supported
<b>Cloud Storage</b>	The FlexTier™ feature of StorNext Storage Manager provides support for customer-owned public cloud accounts in Amazon AWS including S3, S3 Infrequent Access, Glacier, GovCloud, and C2S; Microsoft Azure Locally Redundant Storage (LRS), Zone Redundant Storage (ZRS), Geographically Redundant Storage (GRS), Read-Access Geographically Redundant Storage (RA-GRS); or Google S3 Cloud services (see compatibility document for details)

## XCELLIS STORAGE NODES

	 QXS-412	 QXS-424	 QXS-456
<b>Usage</b>	Combined user data and metadata	Dedicated metadata	Combined user data and metadata
<b>Capacity Options (Raw)</b>	48TB, 72TB per chassis	2.4TB, 4.8TB, 9.6TB, 10.8TB, 19.2TB, 21.6TB	224TB, 336TB
<b>RAID Array to Expansion Ratio</b>	Up to seven expansions per RAID Array	RAID Array only	Up to three expansions per RAID Array
<b>Drive Type</b>	3.5" 7200 RPM NL-SAS	2.5" SSD or 10k RPM SAS HDD	3.5" 7200 RPM NL-SAS

## ENVIRONMENTAL

	 Xcellis Workflow Director Node (per node, two nodes per Workflow Director)	 QXS-412	 QXS-424	 QXS-456
<b>Rack Height</b>	1U	2U	2U	4U
<b>Height</b>	1.68" (4.28 cm)	3.43" (8.71 cm)	3.5" (8.9 cm)	7" (17.8 cm)
<b>Width</b>	18.98" (48.32 cm)	18.99" (48.24 cm)	17.6" (44.7 cm)	17.6" (44.7 cm)
<b>Depth</b>	27.57" (70.05 cm)	20.46" (51.9 cm)	20.57" (52.25 cm)	36" (91.44 cm)
<b>Max Weight</b>	37.3 lb (16.9 kg)	78.2 lb (35.5 kg)	57.32 lb (26 kg)	210 lb (95.3 kg)
<b>Watts</b>	295	465	436	1200
<b>BTU</b>	1007	1587	1488	4095

## ABOUT QUANTUM

Quantum is a leading expert in scale-out tiered storage, archive, and data protection. The company's data management platform and tiered storage approach provide a unique combination of high performance, low-cost capacity, and easy access that enables security and law enforcement professionals to address the challenges created by more cameras, higher resolutions, and increasingly sophisticated analytics. Learn more at [www.quantum.com/video-surveillance](http://www.quantum.com/video-surveillance).