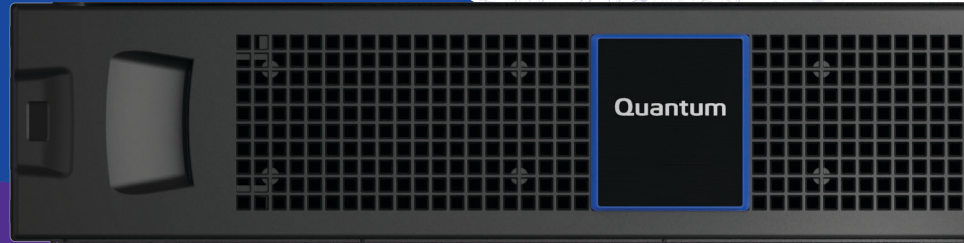# QXS-SERIES

SCALE-OUT AND HIGH-DENSITY STORAGE

FEATURES & BENEFITS

Performance Tuned for Video Workflows
Offering the ideal storage foundation for StorNext, QXS-Series is optimized to deliver maximum throughput and sequential I/O performance.

Designed with No Single Point of Failure
99.999% uptime means organizations can rely on QXS-Series for mission-critical business operations.

High Configurability and Flexible Chassis Options
Workflow-optimized storage architecture provides improved return on IT investments.

Offers More than 10 PB Capacity per Rack
Reduce data center footprint to save on TCO.

High-Performance, Highly Reliable Storage That Gives You Speed and Flexibility for Your Growing Video Workflows

Quantum QXS™-Series storage arrays are high-performance, reliable storage arrays designed to cost-effectively accelerate video workflows with large streaming files such as collaborative media production, and film and television production.

Providing the foundation on which to architect a storage infrastructure, Quantum QXS-Series storage best aligns storage performance and capacity requirements to where and when it is needed most. Each QXS-Series system excels in supporting demanding video workflows by being tuned to deliver high levels of sequential I/O performance. Delivering this performance are highly dense 2U and 5U system options, offering up to 6.7 PB of capacity per fully expanded system.

Relative to other storage arrays, Quantum QXS-Series systems are available in a variety of configurations, and seamlessly support additional expansion systems as needed. Due to the unique ability to simultaneously support online and offline workflows in one global namespace when used with the Quantum StorNext® file system, customers can greatly improve the return on their storage investments.

With multi-core processing, active-active controllers, and separate paths for internal management and external data access, Quantum QXS-Series has been engineered with high availability in mind. And it has proven this reliability through extensive in-house testing, as well as at the world's largest enterprises.

LEARN MORE:

www.quantum.com/qxs

Quantum QXS-Series Benefits

Video Workflows Run Faster on QXS-Series

Quantum QXS-Series storage is tuned for production storage found in media & entertainment and large unstructured data environments. With up to 8 ports per system, internal 12G SAS connectivity, and fast multi-core processing, the upgraded systems significantly outperform previous generation system. And as most customers use QXS-Series in combination with StorNext for video-based workflows, the systems have been tested and optimized for sequential I/O performance.

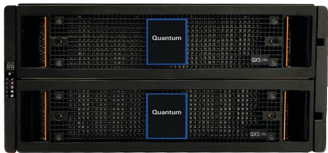### Keep Your Business Operations Running 24/7/365

The fast pace of modern, collaborative media and content production requires a storage solution that is highly reliable to support dependable ongoing production, and deliver content on time. With industry-leading, high-reliability specifications such as dual active/active controllers, hot-swappable power supplies and hard drives, and no single point of failure. This ensures business can stay online without interruption.

Reduce Data Center Footprint

For those customers that need to minimize data center footprint, QXS-Series can be configured up to 6.7 PB, offering high levels of capacity for customers with large amounts of infrequently accessed data. Reducing data center footprint also comes with the added benefit of reduced power and cooling costs.

Quantum QXS-Series Product Line Overview

Quantum QXS-Series primary and expansion systems are offered in two form-factors—a 2U system that can accommodate smaller, higher-performance drives, and a 5U system that offers extraordinary storage density using standard, high-capacity hard drives.

Feature	QXS-5 Series 2U for High Performance	QXS-5 Series 5U for High Density
Drive Bay Configuration	2U 12-bay for 3.5" HDD drives 2U 24-bay for 2.5" SSD or HDD drives	5U 84-bay 3.5" HDD drives
RAID Controllers	Dual Active/Active	Dual Active/Active
Connectivity Interface	8 ports of either 16/32 Gb autosensing Fibre Channel or 10/25 Gb Ethernet	8 ports of either 16/32 Gb autosensing Fibre Channel or 10/25 Gb Ethernet
Drive Modules Available	3.5" NL-SAS HDD 2.5" NL-SAS HDD, 10K HDD, SSD	3.5" NL-SAS HDD 2.5" NL-SAS HDD, 10K HDD, SSD
Throughput Maximum Capability	12 GB/s read, 10 GB/s write	12 GB/s read, 10 GB/s write
Maximum Single System Storage Capacity	240 TB in 2 rack units	1.6 PB in 5 rack units
Maximum Expanded System Capacity	2.4 PB in 20 rack units	6.7 PB in 20 rack units

When architecting a workflow-optimized storage configuration, QXS-Series provides flexible FC and Ethernet (iSCSI) interface options.

Performance, Capacity, and Flexibility

In combination with StorNext, QXS-Series can be configured to provide a precise blend of performance and capacity for both online and nearline workloads in one shared storage environment. This provides the ability to easily scale up in capacity or scale out to support additional clients or high-performance workloads. Scalability can happen without downtime, and with any configured version of QXS-Series storage arrays.

Technical Specifications

	QXS-5 2U 12/24-bay	QXS-5 5U
Controller Performance	Up to 12 GB/s read throughput, 10 GB/s write throughput, 725K IOPS (Random Read), 725K IOPS (Random Read)	
High-Availability Features	Redundant hot-swappable controllers with automatic failover, mirrored caching with supercapacitor cache backup, redundant hot-swappable drives, fans, power supplies	
Drives Supported	SAS HDD, NL-SAS HDD, SAS SSD in either 2.5" or 3.5"	
Physical Dimensions and Attributes	Height: 3.46"/87.9 mm Width: 17.44"/443 mm Depth: 24.8"/630 mm System Weight: 38 lb/17 kg Fully Populated Weight: 66 lb/30 kg	Height: 8.75"/222.3 mm Width: 17.5"/444.5 mm Depth: 38.63"/981 mm Primary System Weight: 180 lb/82 kg Primary System Weight with Drives: 298 lb/135 kg Expansion System Weight: 175 lb/80 kg Expansion System with Drives: 287 lb/130 kg
Operating Temperature	41 °F / 5 °C to 95 °F / 35 °C	
Primary System Connectivity	Choice of either 8 ports total auto-sensing 16/32 Gb Fibre Channel or 8 ports total auto-sensing 10/25 Gb Ethernet 2 ports 12 Gb SAS for expansion system connectivity	
Expansion System Connectivity	12 Gb SAS	
Input Power Requirements	100 VAC – 240 VAC, 50 Hz to 60 Hz	200 VAC – 240 VAC, 50 Hz to 60 Hz
Max Power Output per PSU	580 W	2,200 W

Quantum.

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.