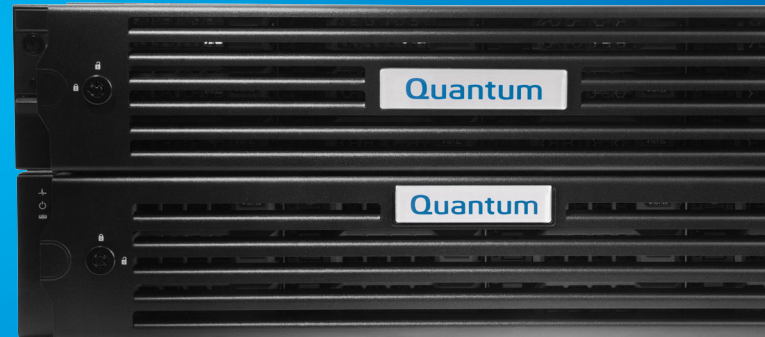


Quantum®

DXi4700 Series



> DATASHEET

Powered by StorNext 5, accelerates storage workflows for data centers and remote sites with extensibility to the cloud for those environments needing performance, scalability, and operational efficiencies.

For small and midsize office environments that want fast on-site restore and long-term data retention, the DXi4700 Series is a scalable deduplication appliance that offers the most efficient variable deduplication and replication, and scales with simplicity. Unlike other deduplication solutions, the DXi4700 provides certainty that all your data is secure and available when you need it most—no matter your architecture, scale, or location.

The DXi4700 Series appliance provides a simple and extensible architecture designed for customers' data protection needs, combining industry-leading price/TB, ease-of-use, and the broadest capacity range from 5TB to 135TB for an entry-level deduplication

appliance. The DXi4701 enables a quick return on investment by providing the lowest cost/TB all-inclusive pricing model, and by providing the industry's most intuitive and advanced management features to reduce time spent managing backups and speed time-to-resolution. Powered by Quantum's DXi® software, the DXi4700 Series provides up to 6TB/hr ingest performance and includes all software licenses in its base price, including interface (NAS/OST, VTL, or multi-protocol), deduplication, replication, and DXi Accent™ software for distributed deduplication.

FEATURES & BENEFITS

Maximize data reduction

Patented variable-length deduplication maximizes data reduction and network bandwidth savings when replicating.

Improve backup and restore times

Powered by the world's fastest file system, StorNext® 5, DXi software provides faster data deduplication and faster access to your backup data.

Deploy for today, scale for tomorrow

Scale from 5TB to over 135TB with Quantum's unique Capacity-on-Demand approach.

Protect data across sites and in the cloud

WAN efficient replication makes it faster and less expensive to move data in and out of the cloud and between sites for offsite backups.

Management tools for smarter operations and lower OPEX

Comprehensive and intuitive management tools enable precise decisions and speed resolution time.

Military-grade encryption with no performance impact

Protect against data breaches using AES 256-bit encryption, for both data-at-rest and data-in-flight.

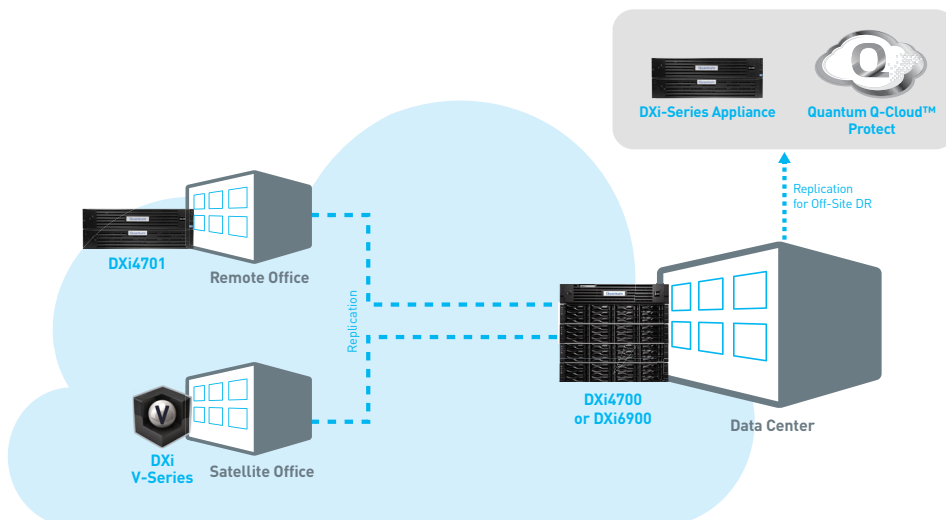


Figure 1 - Replication of Backup Data for Automated DR Protection

> LEARN MORE:
www.quantum.com/dxi

TECHNICAL SPECIFICATIONS

INTERFACES

DXi4700 is available as three models: NAS/OST, VTL, and multi-protocol. The multi-protocol model supports both NAS/OST and VTL interfaces simultaneously on the same device.

NAS backup target	
Presentations:	CIFS and/or NFS
Shares:	128 max
OpenStorage (OST) API	
Presentations:	Symantec Storage Servers and Logical Storage Units
VTL Fibre Channel	
Partitions (max):	64
Drives (max):	64
Cartridges per Partition (max):	9,000
Emulations (libraries):	Scalar® 24, Scalar i40/i80, Scalar 100, Scalar i500, Scalar i2000, Scalar i6000
Emulations (drives):	DLT7000, SDLT 320, SDLT 600, DLT-S4, LTO-1, LTO-2, LTO-3, LTO-4, LTO-5

INLINE PERFORMANCE

NAS Interface:	5.3TB/hour
OST Interface:	5.8TB/hour*
VTL Interface:	5.9TB/hour
DXi Accent:	11.5TB/hour**

SYSTEM REDUNDANCY

RAID 6, redundant power, redundant cooling, hot spare drives, hot-swap drives, power supplies and fans.

HOST TO APPLIANCE H/W INTERFACE

Three 1GbE ports, up to two 10GbE Optical (SFP+), Twinax, 10GBASET, up to four 8GB FC ports (VTL and Multi-protocol models only)

SOFTWARE LICENSES INCLUDED

The base price of the DXi4701 includes licenses for NAS or VTL, OST, deduplication, replication and DXi Accent™ software for distributed deduplication.

CAPACITY AND SCALABILITY

Usable capacity:	5TB to 135TB
Scaling increment:	6TB, 8TB, or 18TB
Logical Capacity:	100TB to 2700TB***
Hard Disk Drives:	4TB

PHYSICAL SPECIFICATIONS

Dimensions:	
System Node:	2U, [17.5in (W) x 3.4in (H) x 28.6in (D)] - [44.5cm (W) x 8.6cm (H) x 72.6cm (D)]
Expansion Module:	2U, [17.8in (W) x 3.4in (H) x 21.8in (D)] - [45.1cm (W) x 8.8cm (H) x 55.2cm (D)]
Weight:	
System Node:	61.0lbs (27.7kg)
Expansion Module:	59.0lbs (26.8kg)

POWER SPECIFICATIONS

Power Input:	NEMA 5-15P to C13 power cord
Input Voltage:	100 to 240VAC, 50-60Hz
Rated Current:	
System Node:	3.48A @ 100VAC, 1.46A @ 240VAC
Expansion Module:	2.4A @ 100VAC, 1.1A @ 240VAC
Max Current:	
System Node:	11.76A @ 100VAC, 15.33A @ 240VAC
Expansion Module:	16.05A @ 100VAC, 6.47A @ 240VAC
Max Power:	
System Node:	344W, 1174BTU/hr
Expansion Module:	263W, 898BTU/hr

ENVIRONMENTAL SPECIFICATIONS

TEMPERATURE	
Operating:	50° to 86°F (10° to 30°C)
Shipping & Storage:	-4° to 140°F (-20° to 60°C)
RELATIVE HUMIDITY	
Operating:	20 to 80% non-condensing
Shipping & Storage:	5 to 95% non-condensing
ALTITUDE	
Operating:	-50 to 10,000ft [-15.2 to 3,048m]
Shipping & Storage:	-50 to 39,370ft [-15.2 to 12,000m]

SYMANTEC OPENSTORAGE (OST) API SUPPORT

Support for OST is a standard feature for all DXi4700 Series units, allowing users to write data to OST logical storage units (LSUs) and enabling application-aware replication in NetBackup and Backup Exec environments. Support includes Optimized Duplication, Auto Image Replication (AIR), and Granular Restore Technology (GRT). OST Optimized Synthetic Full Backups is supported to reduce network I/O and shorten time to perform full restore from incremental backups.

DXi ACCENT

DXi Accent software, a standard feature on all DXi4700 Series models, allows the backup server to collaborate in the deduplication process, off-loading part of the data reduction activity so that only unique blocks are sent over the network to the DXi appliance. This distributed approach provides faster backups over bandwidth-constrained LANs or WANs. DXi Accent can be enabled or disabled on a per-media server basis. Initial support for DXi Accent is provided through the NetBackup OpenStorage (OST) API.

DATA-AT-REST ENCRYPTION

Data-at-Rest Encryption uses Self-Encrypting Drive (SED) technology to secure all data stored on the DXi4701. This includes file data and metadata, configuration files, and the DXi software and operating system. When Data-at-Rest Encryption is enabled, all hard drives in the DXi are paired with the disk controllers using encryption keys. After this, accessing data on the drives requires the same encryption keys and controllers that were used to write the data. This ensures that a drive that is physically removed from the DXi cannot be read using another system or device.

DXi ADVANCED REPORTING

DXi Advanced Reporting, which is included on all DXi appliances, sets new standards for onboard intelligence by giving users a detailed view of internal appliance operations and provides them with years of backup and replication data for extended trend analysis. DXi Advanced Reporting reduces administration time, improves operations, streamlines performance tuning, and helps users maximize the value of their DXi appliances.

QUANTUM VISION

Quantum Vision® provides powerful monitoring, reporting, and analysis tools for all of the Quantum storage devices in your backup environment. You can view the status and track the performance of multiple DXi disk backup systems, vmPRO software, DXi V-Series virtual devices, Scalar LTF5 devices, and Scalar libraries using a single flexible interface.

vmPRO

Quantum vmPRO™ software is a complete data protection solution for virtual environments. Combining simplified management, optimized protection, and future flexibility, vmPRO brings unique value to virtual data protection. Protecting virtual data in native VMDK allows customers to easily restore virtual data in seconds, instantly boot VMs from the DR site or the cloud, and integrate simply with their existing backup infrastructure. Combined with DXi appliances, vmPRO can reduce resource utilization by as much as 95% and deliver best-of-breed cloud-based data protection.

Q-CLOUD READY

Quantum Q-Cloud provides a new, innovative Cloud backup and DR strategy designed specifically for virtual and physical environments. Q-Cloud is a subscription-based solution that allows customers of all sizes to keep more data offsite for a longer period of time by efficiently replicating data to the Cloud with a simple, cost-effective approach. Q-Cloud is a secure cloud data protection solution that integrates with your existing backup software and reduces risk for IT Departments with a convenient option to efficiently replicate your data to the cloud.

REPLICATION

Replication compatible with all DXi-Series products, schedules and bandwidth use set in DXi4701 scheduler. Replication is asynchronous, one-to-one or multiple-to-one configurations; partitions in same unit act as replication source or target; units with partitions acting as replication targets can also support local backup; data is deduplicated and encrypted (AES 256-bit) prior to transmission; cartridge-by-cartridge and file-by-file replication provides automated access to data at the target; CLI support scripting/scheduling. Provides application-aware replication with NetBackup and Backup Exec OST interface.

*Performance in target mode—does not require use of DXi Accent software.

**DXi Accent improves throughput in bandwidth-constrained environments.

***Assumes a deduplication ratio of 20:1. Actual deduplication ratios will vary depending upon data types, retention, and compressibility of your data.

To learn more about Quantum DXi, please visit www.quantum.com/dxi

Quantum
BE CERTAIN