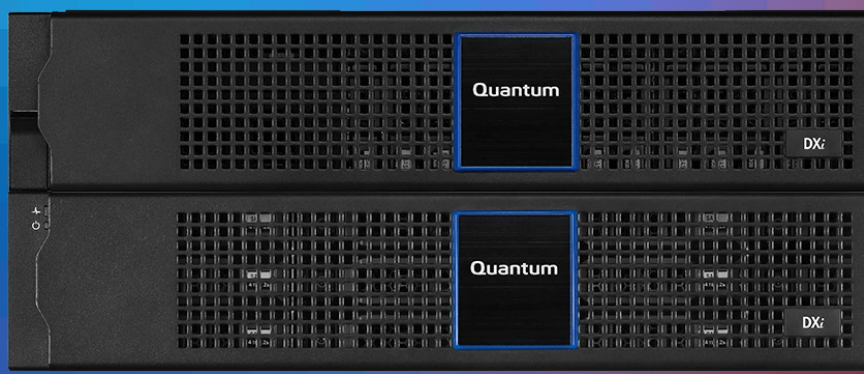
Quantum

DXi4800 SERIES



DATASHEET

FEATURES & BENEFITS

Improve backup and restore times
Powered by the world's most powerful file system—StorNext®—DXi software enables faster deduplication and access to your data.

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.

Scale on your terms
Broadest scalability from 8 TB to over 315 TB with Quantum's own Capacity-on-Demand (CoD) methodology.

Minimize storage utilization
Patented variable-length deduplication maximizes data reduction, providing lowest OPEX and maximizing efficiencies locally, in the cloud, and across WANs.

Increase IT staff productivity
Comprehensive and intuitive management tools enable precise business decisions and speed resolution time.

Provide an extra layer of security
Protect against data breaches across the enterprise using industry-standard AES 256-bit encryption with Self-Encrypting Drives. This is also applied to data-in-flight.

With unique scaling capabilities, the DXi4800 is the most efficient option for small backup environments and remote site protection.

For small and midsize office environments that want fast on-site restore and long-term data retention, the DXi4800 Series is a scalable backup appliance that offers the most efficient variable deduplication and replication, and scales with simplicity. Unlike other deduplication solutions, the DXi4800 provides certainty that all your data is secure and available when you need it most—no matter your architecture, scale, or location.

The DXi4800 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 8 TB to 315 TB for an entry-level deduplication appliance. The DXi4800 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 DXi4800 Series provides up to 34 TB/hr performance with DXi Accent™ and includes all core software licenses in its base price, including interface (NAS/OST, VTL, or multi-protocol), deduplication, replication, and DXi Accent software for distributed deduplication.

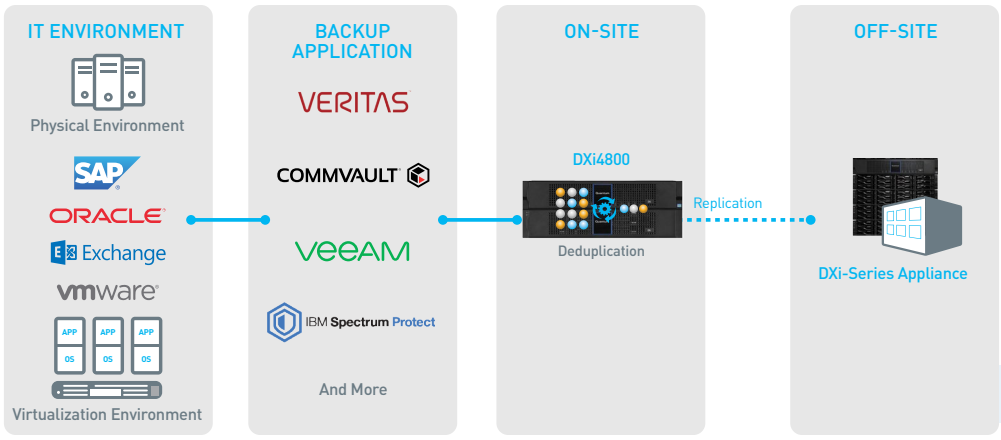


Figure 1 - Replication of Backup Data for Automated DR Protection

LEARN MORE:
www.quantum.com/dxi

TECHNICAL SPECIFICATIONS

INTERFACES

DXi4800 is available as two models: NAS/OST 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:** Veritas Storage Servers and Logical Storage Units

VTL Fibre Channel
- **Partitions (max):** 64
- **Drives (max):** 64
- **Cartridges per Partition (max):** 61,000
- **Emulations (libraries):** Scalar® i40/i80, 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

Ingest Performance:
VTL: Up to 12 TB/hr
NFS: Up to 16.5 TB/hr
CIFS: Up to 14 TB/hr
OST: Up to 17 TB/hr
With DXi Accent: Up to 34 TB/hr

SYSTEM REDUNDANCY

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

HOST TO APPLIANCE H/W INTERFACE

Two 1 GbE and two 10 GbE ports onboard. Option of up to sixteen 10 GbE ports (Optical, Twinax, 10GBASE-T) or eight 16 Gb FC ports (multi-protocol only).

SOFTWARE LICENSES INCLUDED

The base price of the DXi4800 includes licenses for NAS, OST, deduplication, replication and DXi Accent™ software for distributed deduplication.

CAPACITY AND SCALABILITY

- **Usable capacity:** 8 TB to 315 TB
- **Scaling increment:** 3 TB, 8 TB, or 18 TB
- **Logical Capacity:** 160 TB to 9,450 TB*
- **Hard Disk Drives:** 4 and 8 TB NL-SAS 7200 RPM

PHYSICAL SPECIFICATIONS

Dimensions:
- **System Node:** 2U, [17.5 in (W) x 3.4 in (H) x 28.6 in (D)] - [44.5 cm (W) x 8.6 cm (H) x 72.6 cm (D)]
- **Expansion Module:** 2U, [17.8 in (W) x 3.4 in (H) x 21.8 in (D)] - [45.1 cm (W) x 8.8 cm (H) x 55.2 cm (D)]

Weight:
- **System Node:** 72.9 lbs (33.1 kg)
- **Expansion Module:** 59.0 lbs (26.8 kg)

POWER SPECIFICATIONS

- **Power Input:** NEMA 5-15P to C13 power cord
- **Input Voltage:** 100 to 240 VAC, 50-60 Hz

Rated Current:
- **System Node:** 4.74 A @ 100 VAC, 1.98 A @ 240 VAC
- **Expansion Module:** 2.83 A @ 100 VAC, 1.01 A @ 240 VAC

Max Current:
- **System Node:** 4.24 A @ 100 VAC, 3.13 A @ 240 VAC
- **Expansion Module:** 2.60 A @ 100 VAC, 1.57 A @ 240 VAC

Max Power:
- **System Node:** 452 W, 1,541 BTU/hr
- **Expansion Module:** 292 W, 996 BTU/hr

ENVIRONMENTAL SPECIFICATIONS

TEMPERATURE
- **Operating:** 50 °F to 95 °F (10 °C to 35 °C)
- **Shipping & Storage:** -40 °F to 149 °F (-40 °C to 65 °C)

RELATIVE HUMIDITY
- **Operating:** 10 to 80% non-condensing
- **Shipping & Storage:** 5 to 95% non-condensing

ALTITUDE
- **Operating:** -50 to 10,000 ft (-15.2 to 3,048 m)
- **Shipping & Storage:** -50 to 39,370 ft (-15.2 to 12,000 m)

VERITAS OPENSTORAGE (OST) API SUPPORT

Support for OST is a standard feature for all DXi4800 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.

DYNAMIC APPLICATION ENVIRONMENT SUPPORT

The DXi Dynamic Application Environment (DAE) enables the installation of a KVM hypervisor to support virtual machines running many different operating systems on DXi appliances.
DXi supports Veritas NetBackup and Nakivo Backup & Replication running in DAE for customers who wish to save money and data center space by eliminating the need to deploy a separate server to run their backup application. Customers may run NAS and OST backups directly from their DXi appliance running NetBackup within the DAE.

VEEAM DATA MOVER SERVICE SUPPORT

The integration of DXi and Veeam enables the Veeam Data Mover Service (VDMS) to be used to move data between the Veeam proxy server and the DXi appliance. The VDMS communicates with the Veeam proxy server to efficiently manage the data flow between Veeam and DXi, greatly reducing the time it takes to create synthetic full backups and run VM instant recovery.
DXi appliances are a Veeam Ready Integrated storage solution. This program offers Veeam Alliance Partner Program members the opportunity to create solution offerings that complement or enhance Veeam features or functions. Through more extensive product integration, joint development and testing, these enhanced solutions help customers achieve optimal performance or create unique abilities together with Veeam Backup & Replication™ APIs or technologies. The DXi when defined as a repository for Veeam supports the use of the Veeam Data Mover Service (VDMS), which optimizes performance between the DXi and the Veeam proxy server.

DXi ACCENT

DXi Accent software, a standard feature on all DXi4800 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 DXi4800 and helps render breached data useless to anyone who is not authorized to access it. 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.

REPLICATION

Replication compatible with all DXi-Series products, schedules and bandwidth use set in DXi4800 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.

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

Quantum

Quantum technology and services help customers capture, create, and share digital content—and preserve and protect it for decades at the lowest cost. Quantum's platforms provide the fastest performance for high-resolution video, images, and industrial IoT, with solutions built for every stage of the data lifecycle, from high-performance ingest to real-time collaboration and analysis and low-cost archiving. Every day the world's leading entertainment companies, sports franchises, research scientists, government agencies, enterprises, and cloud providers are making the world happier, safer, and smarter on Quantum. See how at **www.quantum.com**.

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