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
WAN efficient replication makes it faster and less expensive to move data between sites for offsite backups.

Scale on your terms
Broadest scalability from 51 TB to over 1,020 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 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.

Gain insight on the health and performance of your Quantum appliances
Cloud-Based Analytics (CBA) is a cloud-based services tool that enables an end-to-end integrated communication between your Quantum systems and the Quantum product and service experts.

With industry-best density, ultra-fast performance, and the ability to protect PBs of data, the DXi9000 is the most efficient option for enterprise backup storage.

DXi KEY CAPABILITIES

FUTURE PROOF SOLUTION
For future mergers, acquisitions, or software changes, DXi features handle your future integration needs.

READ/WRITE SPEED
Ingest speed is critical to meet the backup window, but backup is mainly about restore and being able to detect situations such as Instant VM recovery. DXi combines flash storage for faster ingests with a unique and powerful file system that detects and adapts itself to random I/O request for faster restores.

BEST-IN-CLASS DATA REDUCTION
Variable-length deduplication applied to a single block-pool. No duplicates across partitions, shares, or protocols. It’s all about getting the maximum reduction ratio.

REDUCED RISK
Why wait for the backup job to finish to start replicating? DXi replicates immediately to reduce your risk window. Need an extra protection against ransomware? DXi has a direct link to tape to get your backups offline and out of reach.
### TECHNICAL SPECIFICATIONS

#### INTERFACES
- **NAS Backup Target**
  - Presentations: CIFS and/or NFS
  - Shares: 128 max
- **OpenStorage (OST) API**
  - Presentations: Symantec Storage Servers and Logical Storage Units
  - Shares: 128 max
- **VTL Fibre Channel**
  - Partitions (max): 64
  - Drives (max): 61.2
  - Cartridges per Partition (max): 61,000
  - Emulations (libraries): Scalar® 34, Scalar W800, Scalar 100, Scalar 600, Scalar 2000, Scalar 6000
  - Emulations (drives): DLTL7000, DLTL 200, DLTL 600, DLTL-54, LTDO-1, LTDO-2, LTDO-3, LTDO-4, LTDO-5

#### INLINE PERFORMANCE
- **Ingest Performance:**
  - VTL: Up to 64 TB/hr
  - NFS: Up to 35 TB/hr
  - CIFS: Up to 37 TB/hr
  - OST: Up to 49 TB/hr
- **With AccenT:**
  - Up to 99 TB/hr

#### DATA AND SYSTEM REDUNDANCY
- Enhanced RAID, redundant power, redundant cooling, redundant controllers and data path to storage, hot-swap drives, power supply and fans, and T10-PI technology.

#### HOST TO APPLIANCE H/W INTERFACE
- Provides 2 x 1 GbE and 2 x 10 GbE ports with room to add up to four of the following HBA:
  - Quad-port 10 GbE (Optical), Quad-port 10 GbE (Twistax), Quad-port 10GBASE-T (RJ45), and Quad-port 1 Gb FC.

#### SOFTWARE LICENSES INCLUDED
- The base price of the DXi9000 includes licenses for NAS, VTL, OST, deduplication, replication, path-to-tape (PTT), and DXi Accent software for hybrid deduplication.

#### CAPACITY AND SCALABILITY
- **Usable Capacity:**
  - 51 TB to 1,020 TB
- **Scaling Increment:**
  - 51 TB
- **Logical Capacity:**
  - 1,020 TB to 20.4 PB
- **Hard Disk Drives:**
  - 12 TB Self-Encrypting Drives
- **Server Node Drives:**
  - 16 x H6G SSD

#### PHYSICAL SPECIFICATIONS
- **Dimensions:**
  - **System Node:** 2U (17.5 in W x 34 in H x 28.6 in D) - [44.5 cm W x 86.4 cm H x 72.6 cm D]
  - **Standard Array Module:** 2U (17.5 in W x 34 in H x 28.6 in D) - [44.4 cm W x 86.6 cm H x 72.6 cm D]
  - **Standard Array Module:** 3U (23 in W x 34 in H x 35.7 in D) - [58.4 cm W x 86.4 cm H x 90.7 cm D]
  - **High-Density Array Module:** 4U (17.5 in W x 65.7 in H x 38.3 in D) - [44.5 cm W x 166.9 cm H x 97.2 cm D]
  - **High-Density Expansion Module:** 4U (17.5 in W x 65.7 in H x 38.3 in D) - [44.5 cm W x 166.9 cm H x 97.2 cm D]
- **Weight:**
  - **System Node:** 72 lbs (32.4 kg)
  - **Standard Array Module:** 63.9 lbs (29 kg)
  - **Standard Array Module:** 63.9 lbs (29 kg)
  - **High-Density Array Module:** 24 lbs (11 kg)
  - **High-Density Expansion Module:** 24 lbs (11 kg)
  - **Standard Expansion:** Up to nineteen 51-TB expansion points within ten physical expansion modules 2U each
  - **High-Density Expansion:** Up to sixteen 51-TB expansion points within two physical expansion modules 4U each

#### POWER SPECIFICATIONS
- **Power Input:**
  - NEMA 5-15P to C13 power cord
- **Input Voltage:**
  - 100 to 240 VAC, 50-60 Hz
- **Rated Current:**
  - **System Node:** 6.5 A B 100 VAC, 2.8 A B 240 VAC
  - **Standard Array Module:** 3.9 A B 100 VAC, 1.7 A B 240 VAC
  - **Standard Array Module:** 2.7 A B 100 VAC, 1.1 A B 240 VAC
  - **High-Density Array Module:** 6.1 A B 100 VAC, 5.1 A B 240 VAC
  - **High-Density Expansion Module:** 4.9 A B 100 VAC, 4.1 A B 240 VAC
- **Typical Power Consumption:**
  - **System Node:** 635 W
  - **Standard Array Module:** 342 W
  - **Standard Expansion Module:** 207 W
  - **High-Density Array Module:** 1,170 W
  - **High-Density Expansion Module:** 921 W
  - **BTUs:** 16,25 A B 200 VAC, 13.63 A B 240 VAC – 1,028 TB
  - 8,900 BTU @ 1,020 TB

*Assumes a deduplication ratio of 30:1. Actual deduplication ratios will vary depending upon data types, retention, and compressibility of your data.

### 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)

### SYMANTEC OPESTORAGE (OST) API SUPPORT
- Support for OST is a standard feature for all DXi9000 backup appliances, 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), Replicator, and Enhanced Disaster Recovery (EDR). OST path-to-tape is introduced in NetBackup 6.5.4. OST Optimized Synthetic Full Backups is also 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 KMV hypervisor to support virtual machines running many different operating systems on DXi appliances. DXi supports Virtus NetBackup and Nakoilo 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.

### VEEA DATA MOVER SERVICE SUPPORT
- The integration of DXi and Veeam enables the Veeam Data Mover Service (VDMMS) to be used to move data between the Veeam proxy server and the DXi appliance. The VDMMS 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 with Fast Clone by up to 10x and reduce 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 (VDMMS), which optimizes performance between the DXi and the Veeam proxy server.

### ACCENFS
- **DXi AccenT:**
  - Software backup feature on all DXi9000 backup appliances, allows the backup server to collaborate in the deduplication process, offloading 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 Backup Exec OpenStorage (OST) API, AccenTFS for Oracle RMAN, and Linux OS over LAN/WAN.

### DATA-AT-REST ENCRYPTION
- **Data-at-rest encryption uses self-encrypting drive (SED) technology to securely store all data stored on the DXi9000 and helps render breached data useless to anyone 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. Then, 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:**
  - Included on all DXi appliances, sets new standards for on-board intelligence by giving users a detailed view of their appliance operations. Leveraging 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.

### REPLICAATION
- **Replication is supported for any DXi to any Quantum DXi appliance, and is encrypted (AES 256-bit) and asynchronous. Customers can choose a desired replication strategy: one-to-one, one-to-two, or fifty-to-one. Every partition in a DXi unit can be a source and target, similar to peer-to-peer replication. Replication starts as backup ingest occur to reduce replication time.**