Quantum

DXi ENTERPRISE BACKUP APPLIANCES

Cyber-Resilient Backup with Scalable All-Flash and Hybrid Solutions from Edge to Core to Cloud

DATASHEET

FEATURES & BENEFITS

Address Cybersecurity Threats with Immutable Storage and Advanced Security Features

Protect your data with immutable backups using Retention Lock, Secure Snapshots, or OST WORM for Veritas environments. Combined with Dual Authorization—which requires both an Admin and a Security Officer to approve critical operations—these features safeguard data against unauthorized changes, insider threats, and ransomware.

When Storage Prices Skyrocket, Deduplication Is the Answer

DXi's inline, variable-length deduplication and compression dramatically reduces your overall storage footprint while also minimizing WAN traffic for replication and tiering to other locations, achieving data reduction rates of up to 70:1*.

Protect the Entire Enterprise

DXi virtual and physical appliances combine with flexible DXi-to-DXi replication and seamless tiering to private or public cloud to deliver comprehensive data protection—from the edge, to the core, to the cloud.

DXi T-Series All-Flash Appliances

Compact 1U NVMe systems deliver flash-speed backup and rapid restore for edge sites, core data centers, and mission-critical databases. Start with 15 TB usable capacity and scale up to 480 TB in place. Includes industry-leading deduplication and full DXi feature support.

DXi9200

Quantum's DXi9200 delivers scalable, high-density backup storage—up to 1.1 PB in 7U and up to 2.2 PB in 12U of usable capacity. A 2U controller expands to multi-petabyte scale with modular disk packs, supports multi-stream ingest at tens of terabytes per hour, and is built for long-term on-site retention. Includes all DXi features, including cyber resilience, under a license-free, unified interface.

DXi V5000 Community and Enterprise Editions

DXi V5000 Community Edition is a free virtual backup appliance that protects up to 5 TB. Download in minutes to explore Quantum's full DXi feature set—including cyber security and industry-leading deduplication—and upgrade anytime to the Enterprise Edition for expanded capacity and advanced capabilities. To download, visit: quantum.com/try-dxi

Fast, space-efficient, secure, immutable backup and recovery at any scale

REDUCING THE RISKS TO YOUR BUSINESS IS MORE CRITICAL THAN EVER

Protecting data across the enterprise continues to get more complex and urgent as databases, virtual environments, and unstructured data sets expand at massive scale and velocity. IT managers need to maintain service levels to the business, protect against operational issues, protect data across sites, and ensure recovery from disasters, ransomware, and other forms of attack—all while budgets fail to keep pace with these rising requirements.

DXi-SERIES: AN EFFICIENT, PURPOSE-BUILT DESIGN

DXi®-Series appliances are purpose-built to meet modern backup, service level, and cybersecurity/cyber-recovery requirements across the enterprise.

DXi delivers exceptional cost efficiency, simplified operations, fast access to protected data, and scalable solutions that support environments from remote offices to the largest enterprise data centers. DXi reduces both backup windows and recovery times—helping organizations minimize risk while maintaining business continuity.

As a configurable, purpose-built solution, DXi provides the industry's most efficient variable-length deduplication and compression, dramatically reducing storage requirements, replication bandwidth, and overall physical footprint—an essential advantage as data volumes grow and disk costs continue to rise.

DXi integrates deeply with all leading backup applications and includes a rich feature set provided without additional software charges.

- Outstanding Performance and Cost Efficiency
- All-Inclusive Software Feature Set
- Built-in Ransomware Protection and Recovery
- Edge-Core-Cloud Architecture
- Highly Optimized 3-2-1-1 Solutions
- Rich Solutions Ecosystem

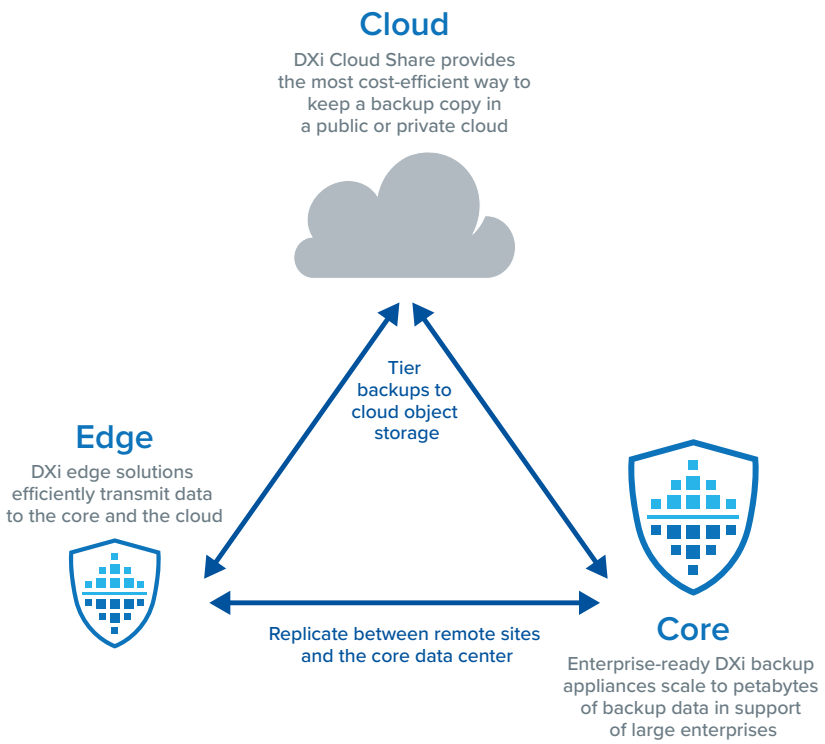
Based on internal field data of actual customer deployments. Realized rates will vary depending on the specific data and workload characteristics.

LEARN MORE:

www.quantum.com/dxi

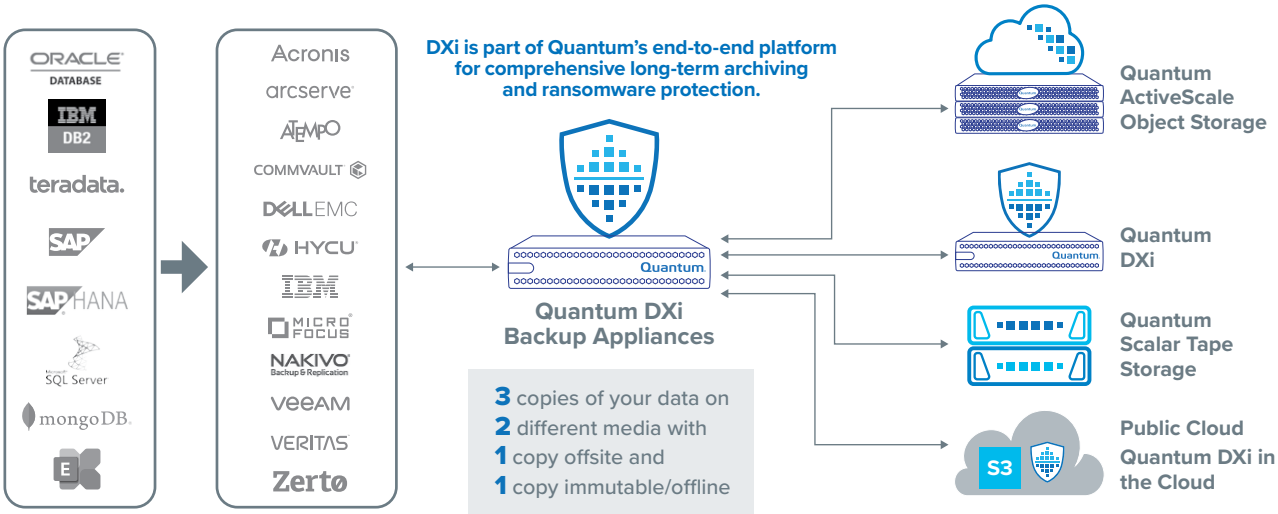
SCALABLE, MULTI-SITE DATA PROTECTION ACROSS EDGE, CORE, AND CLOUD

DXi appliances flexibly scale to meet a variety of sizes and needs, from gigabytes to petabytes. For the edge, DXi virtual and physical appliances provide simple, efficient data protection. Highly tuned DXi replication forwards deduplicated copies concurrently with data ingest (no landing zone required!) to configurable enterprise DXi platforms that scale to petabytes within the data center. DXi Cloud Share provides tiering to private and public clouds, tripling total storage under DXi management, at no additional cost, to meet organizational needs of any size.



FLEXIBLE, COST-EFFECTIVE 3-2-1-1 SOLUTIONS

Protecting your data requires careful planning and consideration. DXi appliances are the cornerstone of flexible, cost-effective application of 3-2-1-1 best practices across any organization. Immediate DXi processing of incoming backup streams reduces the overall storage footprint and networking bandwidth across both onsite DXi resources and downstream offsite resources. DXi appliances integrate with other DXi appliances, object storage, tape libraries, and the public cloud to deliver complete data protection, disaster recovery, and long-term data retention.



SIMPLE, SECURE RANSOMWARE PROTECTION AND RECOVERY

In-flight and at-rest data encryption, immutable storage capabilities, secure access protocols, multi-factor AND multi-user authentication, and role-based access control (RBAC) help you defend your data from cyber risks and recover your backups quickly. DXi Retention Lock and Secure Snapshot protect against ransomware and other disasters by data in non-network addressable storage according to user-defined retention policies. In the case of a ransomware attack, backup data sets can be quickly recovered by restoring from retention-locked backups or to a pre-attack Secure Snapshot.

KEY FEATURES

Feature	Benefit
Immutable data protection with Retention Lock or Secure Snapshot	DXi offers multiple immutable storage options to protect against ransomware and data loss, including Retention Lock (WORM), Secure Snapshot, and Veritas OST WORM. Retention Lock applies granular, file-level WORM protection based on user-defined retention policies. Secure Snapshots create point-in-time copies stored in isolated, non-network-addressable storage, enabling fast recovery in the event of an attack. All options are included as part of the full DXi feature set, which provides comprehensive cyber resilience.
Offsite protection with flexible replication	DXi further reduces business risks with automated offsite copies. Replication is asynchronous, AES 256-encrypted, and highly optimized to minimize bandwidth usage. Up to 1:3 replication fan-out enables creation of safety copies in multiple locations, and up to 50:1 fan-in enables centralized, highly efficient remote protection of dozens of edge sites.
Cost-efficient cloud archiving with Cloud Share*	DXi Cloud Share lowers cloud storage costs by archiving compressed, deduplicated, AES 256-encrypted backup data sets to public and private clouds, including Quantum ActiveScale®. Included as a bundled feature, Cloud Share dramatically reduces cloud storage costs, bandwidth requirements, and egress charges by up to 70X.** Cloud storage under DXi management equals 2X DXi local licensed capacity, effectively tripling a DXi appliance's total capacity under management at no extra charge.
Cost-efficient variable-length deduplication and compression	DXi deduplication and compression maximizes data reduction and minimizes network traffic, providing 3x to 6x greater efficiency than fixed-block deduplication, resulting in data reduction ratios up to 70:1** Plus, all processing is performed inline, upon ingest, without the requirement for a costly landing zone.
Secure encryption of data-at-rest and in-flight	DXi supports data-at-rest encryption using self-encrypting drives (SED). Data that resides on SEDs can only be accessed by the key-authorized controller that originally wrote the data, ensuring that a drive removed from the DXi appliance cannot be read by another system. Ingest, replication and tiering are AES 256-encrypted in-flight.
Secure system access	DXi limits access to data through secure protocols, role-based access control, multi-factor authentication, multi-user authorization, and detailed logging of all admin and user activities. System administrators can create user groups and assign users as Operators or Administrators, with access to specified NAS shares, OST LSUs, and VTL partitions. For operations involving data security—such as setting up retention policies or immutable storage—approval from both an Administrator and a designated Security Officer is required, ensuring strong protection against unauthorized changes.
Capacity-on-demand licensing	DXi's unique capacity-on-demand reduces upfront cost and provides the ability to respond quickly to unpredictable growth requirements. Administrators can defer software licensing of installed capacity and simply activate a new license key whenever additional capacity is needed.
Efficient operations with DXi Advanced Reporting and Metrics Explorer	DXi Advanced Reporting reduces administration time, improves operations, and streamlines performance tuning by providing a detailed view of operational statistics for trend analysis. All these metrics, including CPU, memory usage, network activity, and data reduction rates are exportable in Prometheus format using DXi Metrics Explorer for custom analysis, visualization, and long-term retention using tools like Grafana.

SOLUTION INTEGRATION

Broad ecosystem support across multiple protocols	DXi support of NAS, OST, VTL*, and Veeam Data Mover Service (VDMS) protocols and interfaces enable a rich set of software solutions including Veeam, Veritas, Commvault, Atempo and others. For a complete list of compatible software, visit www.quantum.com/compatibility
DXi Accent	DXi Accent provides faster backups over bandwidth-constrained LANs or WANs, enabling the backup server to collaborate in the deduplication process, offloading activities so that only unique blocks are sent to the DXi appliance. Support for DXi Accent includes Veritas OST, Oracle RMAN, and, via AccentFS, any application that can write to a file system.
Veritas OpenStorage (OST) API	DXi OST support simplifies and enhances operations with Veritas, 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), Accelerator, Granular Restore Technology (GRT), OST Path-to-Tape, Optimized Synthetic Full Backups, and OST WORM.
Veeam Data Mover Service (VDMS)	DXi VDMS support simplifies and enhances DXi operations with Veeam, optimizing data movement between the Veeam proxy server and the DXi appliance for advanced features including Fast Clone and VM Instant Recovery. VDMS efficiently manages data flow between Veeam and DXi, resulting in 15 times faster creation of synthetic full backups. DXi appliances are qualified as Veeam Ready Integrated storage.
Path-to-Tape (PTT)	When configured on a DXi system, the Path-to-Tape feature allows the export of data to an attached physical tape library for Backup software solutions that support this feature.
Dynamic Application Environment*	The DXi Dynamic Application Environment (DAE) saves money and rack space by eliminating the need to run a separate server for select backup applications. DAE embeds a KVM hypervisor to run a media or data mover server as a VM on DXi appliances.

**Features not supported on Virtual DXi V5000*
***Based on internal field data of actual customer deployments. Realized rates will vary depending on the specific data and workload characteristics.*

DXi-Series Backup Appliances | Technical Specifications

DATASHEET

Attributes	DXi V5000* Community Edition	DXi V5000* Enterprise Edition	DXi T10-60 All Flash	DXi T10-120 All Flash	DXi T10-240 All Flash	DXi T10-480 All Flash	DXi9200
Usable Capacity	100 GB - 5 TB	5 - 256 TB	60 TB	120 TB	240 TB	480 TB	110 TB - 2.2 PB
Expansion and Capacity-on-Demand (CoD)	Licensed in 1 TB increments		Min. config: 30 TB Licensed in 15 TB increments	Min. config: 60 TB Licensed in 15 TB increments	Min. config: 120 TB Licensed in 15 TB increments	Min. config: 240 TB Licensed in 15 TB increments	55 TB Increments (CoD)
Total Usable Capacity with Cloud Share* **	NA		180 TB	360 TB	720 TB	1.44 PB	330 TB - 6.6 PB
Total Logical Capacity with Cloud Share @ 70:1** **	7 - 350 TB	350 TB - 17.92 PB	12.6 PB	25.2 PB	50.4 PB	100.8 PB	462 PB
Performance (TB/h)	Customer Hardware		Up to 113 TB/h (DXi Accent)				Up to 74 TB/h Up to 129 TB/h (DXi Accent)
Drives	Customer Hardware		6x 15.36 TB NVMe SED (data and metadata)	10x 15.36 TB NVMe SED (data and metadata)	10x 30.72 TB NVMe, Self-encrypted, RAID6	10x 61.44 TB NVMe, Self-encrypted, RAID6	20 TB SED HDDs (data) 16x 1.92 TB NVMe (metadata)
Access Protocols	All but VTL		NFS / SMB / OST / VTL / AccentFS / VDMS				
Administration/ Monitoring/ Reporting	All but Cloud-Based Analytics	GUI / CLI / Web Services / SNMP / SMTP / Advanced Reporting / Metrics Explorer / Cloud-Based Analytics (CBA)					
Connectivity	Customer Hardware		Standard: 2x 10GBASE-T (RJ45) Combination of up to 3 optional NICs: Quad-port 10 / 25 GbE (Optical or Copper) Dual-port 100 GbE (Optical or Copper, max 2) Dual-port 32 Gb FC				Standard: 1 Gb port (for management only) Any combination of up to 4 NICs (1 mandatory, plus 3 optional): Quad-port 10GBASE-T Quad-port 10 / 25 GbE (Optical or Copper) Dual-port 100 GbE (Optical or Copper) Dual-port 32 Gb FC
Protocol Limits	Variable (no VTL)		128 NAS Shares OST: 100 Storage Servers VTL: Up to 64 partition, 64 VTDs per partition, 150 total VTDs 61,000 VTC per partition				128 NAS Shares OST: 100 Storage Servers VTL: Up to 64 partition, 64 VTDs per partition, 512 total VTDs 61,000 VTC per partition
Additional Features	Veeam VDMS (Fast Clone Support)		Dynamic Application Environment (DAE)** for NetBackup, Nakivo Veeam VDMS (Fast Clone Support)				
Security	Encrypted in-flight replication and tiering, Secure Snapshot, RBAC, Audit logging, Multi-factor authentication, Secure email						
Drive Encryption	Customer Hardware		Self Encrypting Drives (SEDs) optionally managed by a KMIP-compatible External Key Manager				
Data Availability and RAID	Customer Hardware		RAID6				Redundant RAID Controllers, Redundant Interconnect, (Internal) Path Failover, Hot Spares Node SSD: RAID6
System Availability	Customer Hardware		Redundant power and cooling, hot-swap drives				Redundant power and cooling, hot spare drives, hot-swap drives, power supplies and fans
Rack Space Min/Max	Customer Hardware		1U	1U	1U	1U	7U to 12U
Watts/BTU (Max Capacity)	Customer Hardware		Platinum Level High-efficiency 613 Watts / 2,093 BTU	Platinum Level High-efficiency 670 Watts / 2,300 BTU	Platinum Level High-efficiency 680 Watts / 2,320 BTU	Platinum Level High-efficiency 690 Watts / 2,350 BTU	4,358 Watts / 14,861 BTU @ 2200 TB Watts: Node 1032 Watts: RBOD 1663
Replication Compatibility	Compatible with all supported DXi appliances and versions						
Replication Fan In/Out	Number of connections variable		Fan In: 20 to 1 Fan out: 1 to 3				Fan In: 50 to 1 Fan out: 1 to 3

** Minimum requirements for DXi V5000: Hypervisor: KVM, VMware, Hyper-V; Disk: 200 GB of disk; RAM: 4 GB; CPU Cores: 2; Ethernet Port: 1. Scaling up requires additional resources. See install documentation at www.quantum.com.*
*** Features not supported on Virtual DXi V5000.*
**** Cloud Share usable capacity scales at a rate of 2X the DXi capacity licensed.*
***** Realized rates will vary depending on the specific data and workload characteristics. Based on internal field data of actual customer deployments, data reduction rates can be as high as 70X.*

Quantum delivers end-to-end data management solutions designed for the AI era. With over four decades of experience, our data platform has allowed customers to extract the maximum value from their unique, unstructured data. From high-performance ingest that powers AI applications and demanding data-intensive workloads, to massive, durable data lakes to fuel AI models, Quantum delivers the most comprehensive and cost-efficient solutions. Leading organizations in life sciences, government, media and entertainment, research, and industrial technology trust Quantum with their most valuable asset – their data. Quantum is listed on Nasdaq (QMCO). For more information visit www.quantum.com.

© Quantum Corporation. All rights reserved. Quantum, the Quantum logo, ActiveScale, DXi, and DXi Accent are registered trademarks of Quantum Corporation and its affiliates in the United States and/or other countries. All other trademarks are the property of their respective owners.