

Quantum®

DXi-SERIES BACKUP APPLIANCES

High-Performance, Scalable Backup Appliances
for Data Protection, Cyber-Resilience & Disaster Recovery



DATASHEET

FEATURES & BENEFITS

Reduce Backup Costs with Efficient Data Reduction

DXi inline, variable-length deduplication and compression reduces your overall storage footprint and reduces WAN traffic when replicating and tiering to other locations. Achieve data reduction rates up to 70:1.*

Address Cybersecurity Threats with Immutable Storage Options

Create Secure Snapshots of your backup data or use OST WORM for Veritas environments.

Protect the Entire Enterprise

Virtual and physical DXi appliances, flexible DXi-to-DXi replication, plus tiering to cloud targets, enable solutions from the edge to the core to the cloud.

Maximize Production System Availability and Minimize the Time to Protection

Up to 113 TB/hr throughput using DXi Accent® for fast data ingest and recovery.

Reduce Data Center Power & Cooling

Efficient solution architecture and industry leading storage density protects data with fewer disks, less rack space, less power, and less cooling.

DXi T-Series All-Flash Appliances

Compact 1U NVMe systems that deliver flash-speed backup and fastest-possible restore for edge sites, core data centers, and mission-critical databases. Start with as small as 15 TB usable capacity and license up to 480 TB in place, with inline dedupe, immutable Secure Snapshot, and Cloud Share tiering to defend against ransomware.

DXi 9000 Series

Quantum's high-density, disk-based backup platform for long on-site retention and large enterprises. A single 3U controller expands to multi-petabyte usable capacity with add-on disk packs, sustains multi-stream ingest in the tens of terabytes per hour, and includes the full DXi cyber-resilience feature set—all under one license-free interface.

DXi V5000 Community and Enterprise Editions

DXi V5000 Community Edition—a free virtual backup appliance that protects up to 5 TB. Download in minutes, explore Quantum's deduplication and recovery features at your own pace, and upgrade anytime to the full Enterprise Edition for larger 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 with massive growth across databases, virtual environments, and unstructured data sets. 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. Yet, budgets aren't growing nearly as fast as these requirements.

DXi-SERIES: AN EFFICIENT, PURPOSE-BUILT DESIGN

DXi®-Series appliances are uniquely powerful solutions for meeting your backup needs, service level requirements, and cyber recovery efforts. DXi provides cost efficiency, simple operations, fast access to your data, and scalable solutions from remote offices to the largest enterprise data centers. DXi enables you to reduce both your recovery times and your backup windows.

As configurable, purpose-built solutions. DXi provides the industry's most efficient variable-length deduplication and compression, minimizing storage requirements, replication bandwidth needs, and overall physical footprint.

Multiple standard access protocols and interfaces are supported across all popular backup applications, including comprehensive integration with Veeam and Veritas OST APIs. DXi appliances are delivered as a complete solution, with Capacity-on-Demand software licensing minimizing upfront costs and a rich all-inclusive feature set included without additional cost.



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

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 Solutions

Rich Solutions Ecosystem

LEARN MORE:

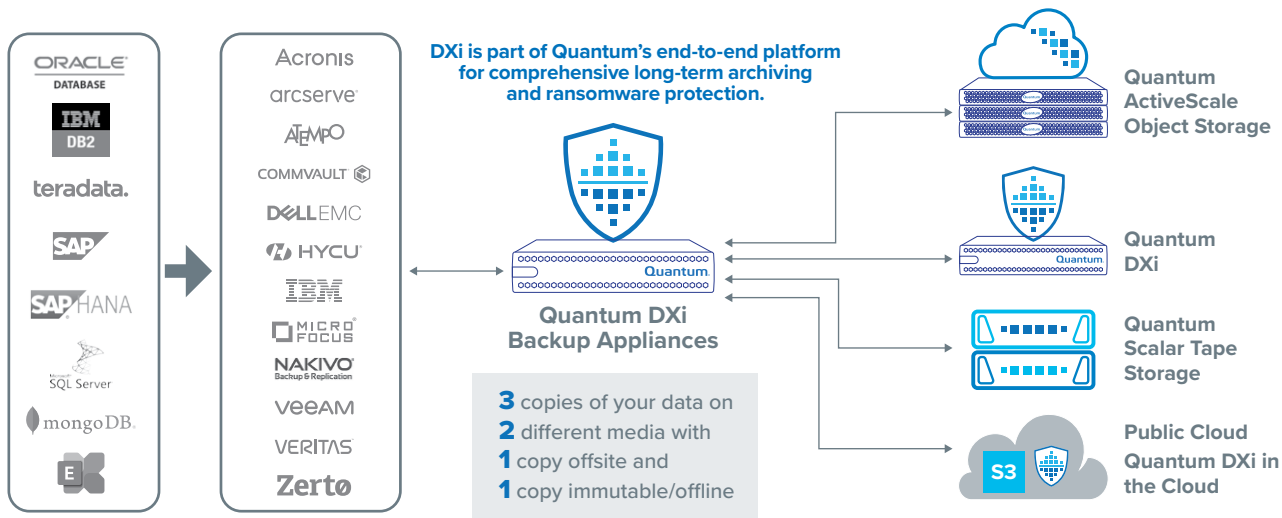
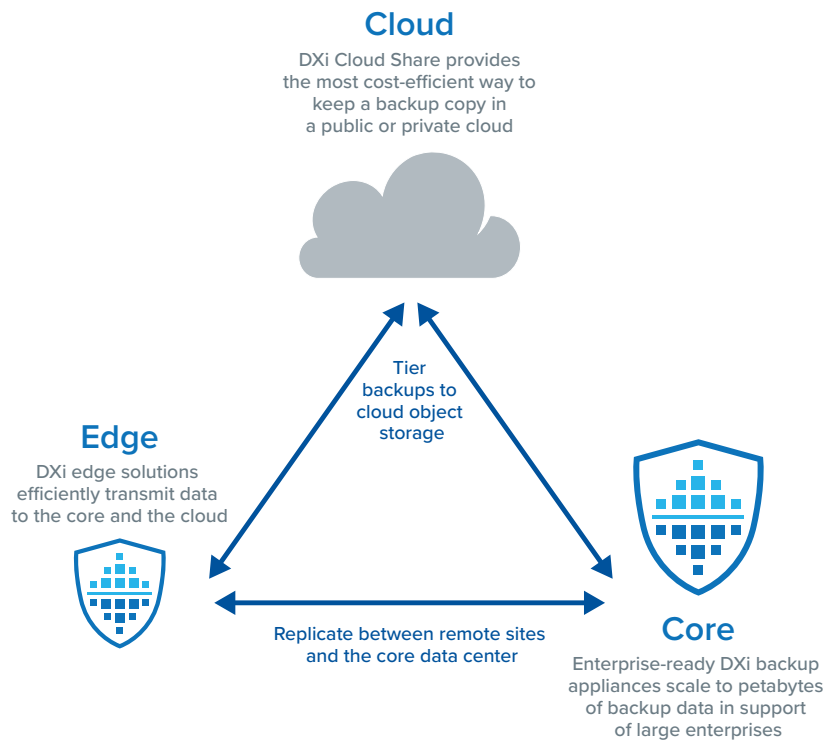
www.quantum.com/dxi

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 hundreds of petabytes. For the edge, DXi virtual and physical appliances provide simple, efficient data protection. Highly tuned DXi replication forwards optimized 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 authentication and role-based access control (RBAC) help you defend your data from cyber risks and recover your backups quickly. DXi Secure Snapshot protects against ransomware and other disasters by isolating immutable point-in-time copies 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 to a pre-attack Secure Snapshot.

KEY FEATURES

Feature	Benefit
Cost-efficient, inline, 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.
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. Incoming backup streams are concurrently ingested, data reduced, stored, and replicated for fast, secondary protection of the data. 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.
Immutable protection with Secure Snapshot	DXi Secure Snapshot enhances protection against ransomware and other disasters by retaining immutable point-in-time copies of backup data. These secure copies, which are protected from deletion or modification by user-defined retention policies, are stored in isolated, non-network-addressable storage. In the case of a ransomware attack, backup data sets can be quickly recovered by restoring to a pre-attack Secure Snapshot. DXi also supports Veritas OST WORM.
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 and 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.
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. Backup software solutions that support this feature include Veritas NetBackup and Backup Exec, Oracle Secure Backup, Atempo Tina, and Dell Networker.
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.

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: 15 TB Licensed in 15 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	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 (SED)				
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.

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