Quantum

VALIDATED SOLUTION BUNDLES FOR ATEMPO TINA

Comprehensive Data Protection, Cyber Resilience, and Disaster Recovery

FEATURES & BENEFITS

Comprehensive, Multi-Workload Data Protection
End to end solutions to backup and restore data across multiple platforms, whether physical or virtual, including application data, databases, NAS, and Microsoft 365.

3-2-1-1 Best Practice Solutions
Easily create online and offline backup copies on multiple media, including disk, object, tape, and cloud targets and replicate them to remote sites.

Immutable Protection Against Ransomware
Create a multi-layered approach to protect your data and easily recover from malware with immutable and air-gapped solutions, including DXi Secure Snapshot, ActiveScale Object Locking, and Scalar Active Vault and Ransom Block.

Single Vendor, All-Inclusive Packaged Solution
Simply procure and manage a complete solution with an affordable, all-inclusive target capacity-based software subscription, irrespective of the number of servers, VMs, application agents, or CPU cores.

KEY USE CASES

- Backup and recovery
- Ransomware protection
- Disaster recovery
- Retention and compliance

ENVIRONMENTS

- Virtualized infrastructure
- Databases and bare metal servers
- Network-attached storage (NAS) and file shares
- Microsoft 365

LEARN MORE:
www.quantum.com/atempo-tina

Quantum validated solution bundles for Atempo Tina meet every data protection need for online and offline data copies, on and offsite, seamlessly protecting all your valuable data.
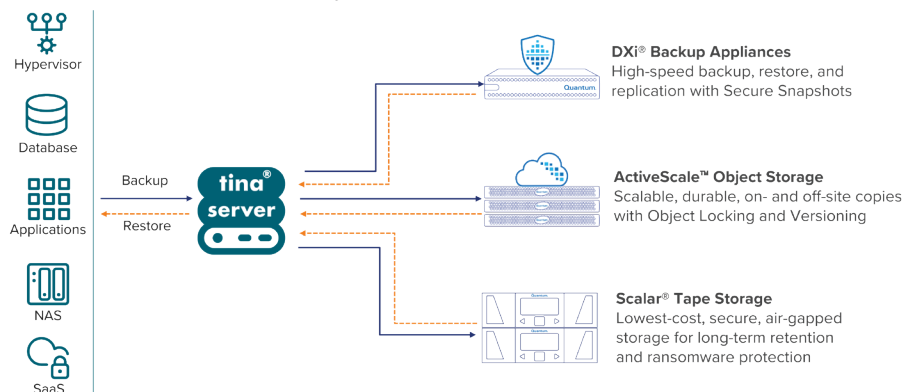
The Challenges of Modern Data Protection
With rampant data growth and data silos emerging across data centers, cloud resources, edge locations, and remote offices, data management and protection has never been a more challenging IT requirement. Corporate data from a wide variety of sources continues to increase in value and is at ever greater risk of ransomware attacks and other forms of cybercrime. Every IT organization, including yours, is a potential target, at risk of significant revenue loss and damage to its reputation and brand. Industry best practices emphatically recommend* that all digital data assets need multiple backup copies, and that at least one backup copy be stored separately, inaccessible to the network.

To counter these threats, Quantum and Atempo offer data protection solutions that ensure the immutability and air gapping of protected data, accelerate disaster recovery, and ensure business continuity.

End-to-End Solutions from SMB to Enterprise
Quantum validated solution bundles for Atempo Tina are comprehensive, end-to-end solutions that simply and affordably protect your data from operational failures, site disaster, and cyberattacks. Based on Atempo Tina backup and recovery software, these bundles are configurable solutions available for organizations of all sizes to address the need for durable, secure, onsite and offsite data copies, across a wide range of data sources and storage targets. Full support of Quantum's award-winning portfolio of secondary storage target platforms, including DXi backup appliances, ActiveScale object storage systems, and Scalar tape libraries, provides comprehensive protection of your IT environment.

End-to-End Solutions from SMB to Enterprise. Quantum and Atempo work together to simply consolidate and manage backup and recovery of mission-critical applications, infrastructure, and data sets. A centralized console coordinates data sources, backup storage targets, backup schedules, and recovery procedures of online and offline copies at both local production sites and remote disaster recovery facilities.

* https://www.cisa.gov/uscert/ncas/tips/ST19-001

ATEMPO TINA KEY FEATURES

Centrally Manage All Data Sources and Targets

Atempo Tina provides a unique central interface to configure and manage all backup sources, targets, scheduling, and recovery. The Tina interface is common across all operating systems, physical and virtual machines, applications, and Microsoft 365.

Simply Recover Data with Fast, Intuitive 3-Click Restores

Tina Time Navigation is a powerful tool to restore backup copies from a precise moment in time without scripting. Navigate the backup tree structure for a granular view of application data sets, VM images, VM disks, directories, and files. To recover, simply select and restore from the versions available.

Tape and Library Management for Air-Gapped Protection

Backups can be written directly to tape at high speed without disk staging, while indexing each file and its location, providing fast data restores. Protected on tape, your data is physically out of the reach of cybercriminals!

Simpler Virtualized Infrastructure Management

Full protection of VMware, Microsoft Hyper-V, Nutanix AHV, and OpenStack environments, including point-in-time file level restores in case of file deletion or corruption.

Reliable, Complete Protection of Microsoft 365 from Mail to Collaborative Apps

Protect Exchange, OneDrive, SharePoint, and Teams data sets, complete with advanced searching and granular restore of mailboxes, folders, individual emails, SharePoint sites, and Teams sites.

Protect All Physical and Virtual Systems, Applications, and File Data

Easy-to-Use, Scalable Data Backup and Recovery

Atempo Tina simplifies the management, protection, recovery, and archiving of digital assets on virtually any platform, across any infrastructure, and over any period of time. Atempo Tina provides comprehensive backup and restore functionality across multiple platforms, whether physical or virtual, including application data, databases, NAS, and Microsoft 365. With Atempo Tina, IT administrators have a powerful tool to protect their digital assets from data loss, site disasters, and ransomware.
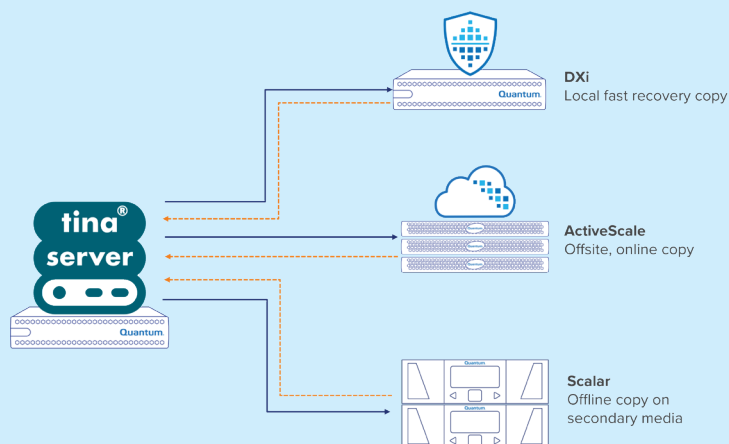
Cutting-Edge Cyberthreat Protection

With Time Navigation, Tina's innovative advanced restore feature, Tina simply enables quick data recovery from multiple backups and file versions. As a multi-service data protection platform, Tina seamlessly integrates into your environment and allows you to establish and manage your backup policies across all your data sources quickly and easily. With Atempo Tina, you can drastically simplify backup administration. Plus, Atempo Tina is "Secure by Design", with many advanced security features, including strong authentication, data encryption, SSL certificates, and offline tape management, making Tina well suited to facilitate and manage your 3-2-1-1 backup strategy.

Flexibly Applying the 3-2-1-1 Backup Strategy

Protecting your data from data loss, site failures, and ransomware requires careful planning and consideration. Industry standard best practices recommend that you maintain three copies of your data on two independent storage mediums with one copy offsite and one copy offline. Quantum is the only storage platform vendor with a complete backup storage portfolio to fully meet these storage requirements. Together, Quantum and Atempo enable comprehensive solutions that allow you to centrally manage backup copies across multiple sources and targets, both on and offsite.

- High performance backup and recovery maximizes production system availability
- Immutable copies across disk, object, and tape platforms for easy protection and recovery from ransomware
- Visibility and management of online and offline copies across multiple targets, both local and remote
- Cost efficiency across the entire data lifecycle with built-in data reduction, data replication, low-cost storage media, and scalability from SMB to Enterprise
- Robust platforms designed for maximum security, data durability, and protection

DXi
Local fast recovery copy

ActiveScale
Offsite, online copy

Scalar
Offline copy on secondary media

Example 3-2-1-1 Solution for Enterprise Deployment. Applying the 3-2-1-1 best practice for a scalable enterprise deployment might include an Enterprise media server based on Atempo Tina, a local DXi appliance for high-speed backup and instant recovery, an ActiveScale object store deployed offsite as S3-compatible private cloud storage, and a Scalar tape library for offline copies written to secondary media.

Quantum Backup Targets for Multi-Layered Protection

Quantum's portfolio of data protection solutions combines decades of storage and data management expertise with our latest innovations and modern technologies to simply and affordably address requirements for data availability, recoverability, durability, and security. Together, Quantum and Atempo deliver end-to-end solutions to ensure business continuity, maximize data storage efficiency, and protect against cyberthreats.

DXi®

Backup Appliances

Virtual and physical appliances optimized for performance, recoverability, immutability, and efficiency

- Fast local backups and instant restores
- Secure Snapshots isolate backup copies from the network to protect data from ransomware attacks
- Ultra-efficient, inline variable-length deduplication
- Efficient, built-in replication for easy offsite copies
- Tina Express Restart for fast virtual machine recovery and boot-up
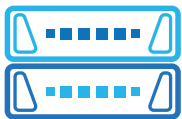
ActiveScale™

Object Storage

Immutable, highly durable S3-compatible private cloud storage provides a cost-effective alternative to public cloud

- Simple-to-manage onsite or offsite targets, always online for easy recovery
- Object Locking, Versioning and Encryption for immutable online copies
- Self-protecting geo-spreading for the ultimate durability and disaster protection
- Proactive data scrubbing guarantees data quality over time
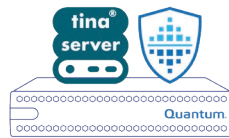- Seamless, scalable expansion to any scale
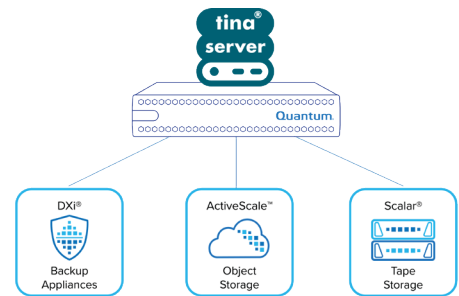
Scalar®

Tape Storage

The lowest-cost, most secure, air-gapped storage for long-term retention and ransomware protection

- Scalar Security Framework for industry-best security, including multi-factor authentication, media security alerts, and auditing
- Easy logical and physical offlining of data with Active Vault secure partitions, Logical Tape Blocking, and Ransom Block automation
- Sustainable, long-term media for data retention and compliance
- High-performance Tina backups with no staging to disk

SMB
A converged media server and
disk-based backup system

ENTERPRISE
A configurable media server solution
for backup environments of any size

Specifications		
Usable Capacity	16 TB Minimum 80 TB Maximum	N/A
Storage Target Performance	Up to 2 TB per hour	N/A
Software	Atempo Tina DXi V5000	Atempo Tina
Data Source Compatibility	All major operating systems including Windows, Linux, Solaris, AIX & iSeries VMware, Microsoft Hyper-V, OpenStack Compute (NOVA), Nutanix AHV Exchange, SharePoint, SQL, MySQL, PostgreSQL, Oracle, SAP HANA, IBM Domino, DB2, MariaDB	
Storage Target Compatibility	Quantum DXi backup appliances and DXi Path to Tape (PTT) capability Quantum ActiveScale object storage Quantum Scalar tape drives and libraries 3rd party disk, backup appliances, and tape S3-compatible cloud storage Virtual Tape Libraries (VTL)	
Replication	All supported DXi appliances and versions Number of connections Fan out (to target) = 2:1 Fan in (from source) = 5:1	N/A
CPU	Dual Intel® Xeon® Silver 4214R processor (24 cores)	
RAM	64 GB standard, 128 GB optional	64 GB standard, up to 1.5 TB optional
Storage	6 x 480 GB SSD drives 12 x 8 TB SATA drives (10+2 RAID 6)	6 x 480 GB SSD drives
Networking	2 x 10 GbE + 2 x 1 GbE standard	
Networking Daughter Card Options	4 x 10 GbE 2 x 10/25 GbE 2 x 40/100 GbE	
System Availability	RAID 6 Hot-swap drives Hot-swap redundant power supplies Hot-swap redundant cooling	Hot-swap drives Hot-swap redundant power supplies Hot-swap redundant cooling
Tape Integration Options	12 Gb SAS HBA 2 x 32 Gb FC HBA 4 x 16 Gb FC HBA	
Dimensions	Form factor: 2U Height*: 86.8 mm (3.4") Width*: 434 mm (17.1") Depth*: 737.5 mm (29.0") *Dimensions do not include bezel.	
Weight	74.0 lbs. (33.1 kg)	
Power Consumption	1,100 W	
System Cooling	4,100 BTU/hour	
Power Supplies	100 – 240 VAC	

Quantum technology, software, and services provide the solutions that today's organizations need to make video and other unstructured data smarter — so their data works for them and not the other way around. With over 40 years of innovation, Quantum's end-to-end platform is uniquely equipped to orchestrate, protect, and enrich data across its lifecycle, providing enhanced intelligence and actionable insights. Leading organizations in cloud services, entertainment, government, research, education, transportation, and enterprise IT trust Quantum to bring their data to life, because data makes life better, safer, and smarter. Quantum is listed on Nasdaq (QMCO) and the Russell 2000® Index. For more information visit www.quantum.com.