TACYON® 3

All Flash Revolution

RISC Technology for Superior Performance
Best Price / Performance Ratio in Industry
High Availability / Fault Tolerant Storage
Exceptional Modular Design

pursue perfection

Millions of IOPs

HA/DT All Flash SAN for Medium and Enterprise Businesses

● The Tacyon® 3 represents the highest performing, High Availability and Disaster Tolerant SAN environment, optimized for the performance needs of Medium and Enterprise Businesses with Millions of IOPs. Substantially faster by exploiting all the advantages of Flash Technology, it is a storage cluster with enhanced Automatic Failover Technology which guarantees the operation of the system even in case of a site failure.

Multilevel Cache Technology

● Multilevel Cache Technology: CISC Cache and RISC Cache provide excellent performance.

Wide Range Volume Replication

● Data Replication is supported for long distances to save user data to an additional location redundantly.

Monitoring

● Tacyon® 3 monitoring provides a multilevel notification system supporting Email as well as SNMP. Hardware based sensors are working in every operation mode also at offline systems.

Substantial Expandability

● Featuring a highly modular design, the Tacyon® 3 retains the prospect of expanding at any given point in time and at any rate desired. This facilitates the company to upgrade the Tacyon® 3 according to their budget in a timely fashion exactly when needed.

Active/Active*

● Two nodes located in the storage cluster can be used active/active and written to simultaneously and ensure maximum availability, even in case of failure of one side for SAN services.
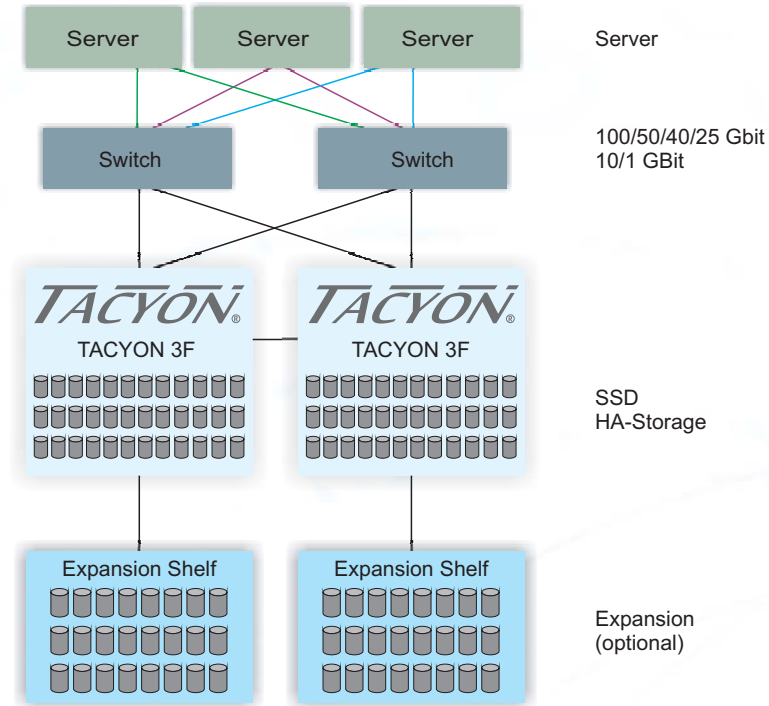
Multi-Tier Investment Protection

● Existing hardware, even from different manufacturers, can continue to be used, Tacyon® platforms can also be used in Tacyon®, Quanton® or PlatinStor® next generation systems. A modular design allows a simple expansion at any given time.

Highly Effective Capacity Utilization

● After building the RAID sets, almost 100% of the net capacity can be used for storing user data.

Server   Server   Server   Server

100/50/40/25 Gbit
10/1 GBit

Switch   Switch

TACYON 3F   TACYON 3F   SSD HA-Storage

Expansion Shelf   Expansion Shelf   Expansion (optional)

saved! forever

Outstanding Data Integrity

● Each Tacyon® 3 cluster contains two nodes. Each node provides its own storage devices, data integrity is ensured even if one site is totally unavailable.

True Synchronous Mirroring

● Each block being confirmed by Tacyon® 3, is guaranteed to exist on both nodes, data loss due to failure of one side is thus controlled optimally.

Flexible Connectivity

● All popular media for iSCSI/Ethernet is supported, including iSCSI over 1GBE, 10GBE, 25GBE, 40GBE, 50GBE and 100GBE copper and optical as well as 8GBit and 16GBit FC*.

Enhanced Maintenance

● The Tacyon® 3 Management Console is designed to be used locally or remotely over internet. Multilevel rights management increases security and flexibility as well as making overall management easier.

* Dependent on model

TECHNICAL SPECIFICATIONS

Administration

Management	• Webbased GUI • Secured administrator access • Multiple management levels • SSL connection for WebGUI
Tools	• Console-Tools • Performance-Tools • Remote access via web for the console • Remote access also on offline systems
SNMP	• SNMP based monitoring

Network

Connectivity	• Support of multiple network cards
	  with grouping and failover
	• 2x Gigabit RJ45
	  Up to 18x Gigabit RJ45 (optional) or
	  Up to 16x 10 Gigabit Ethernet (optional) or
	  Up to 8x 40 Gigabit Ethernet (optional)
	  Up to 8x 100 Gigabit Ethernet (optional)
	• Up to 8x 16 Fibrechannel (optional)

Memory Management

Integration of Resources	• iSCSI Initiator • Target mode (SAN)
Volumes	• Support for physical volumes with more than 2TB • Support for logical volumes with more than 2TB
Snapshots	• Multiple Snapshots • Multiple logical volumes & groups
Extension features	• Online extension of logical volumes • Online capacity extension • Spanning of logical volumes over multiple physical volumes
RAID	• RISC RAID 1/5/6/10/50/60 with 1GB RISC Cache* • RAID level expansion • RAID level migration
Security	• Internal synchronous volume mirroring • External synchronous volume mirroring with failover (iSCSI volumes) • Asynchronous NAS volume replication over LAN or WAN

iSCSI Features

Security	• IP address restriction for a target • CHAP user administration • MPIO support

Monitoring

Monitoring	• Hardware monitoring • SNMP V2 & V3 • Email notification • Log-function • Remote monitoring via web

Power Security

UPS	• Local UPS Support • Network-UPS support

NAS features

User management	• Windows Active Directory • Primary domain controller • NIS Support • internal & external LDAP support • ADS & NIS user (group ID synchronisation) • User- and group- quota allocation
Filesystem	• Filesystem journaling supported
Antivirus	• Antivirus with scheduling function for automatic scanning • Update of the Antivirus Database
Supported Backup Agents	• Veritas, EMC Dantz, CA BrightStor

Supported hosts and protocols

Supported Hosts	• Microsoft Windows Server 2016/2012/2008, Linux, Unix, Mac OS 8.0, 9.0, X, 10.4, VMWare, HyperV, XEN
Protocols (SAN)	• iSCSI (Ethernet), FC
Protocols (NAS)	• SMB/CIFS, FTP, Secure FTP, Apple Talk, NFS v3

Backup (NAS)

Basic System	• Local backup • Integrated backup system • NAS data mirroring • Task mechanism with scheduled execution • Virtual tapes • Support for tape libraries and autoloader • Scheduling with predefined automatic backup creation • Setting of a minimum age for overwriting

Warranty

Basic Warranty	• 3 years spare part exchange in advance/NBD • Expandable up to 7 years spare part service • Expandable up to 7 years On-Site Service • 20 support-tickets for technical assistance included*

Front

Buttons	• On/Off-button
LEDs	• LED indicating operation • 24 LEDs for SSD activity (A24) • 48 LEDs for SSD activity (A48)
Filter	• Lockable optical front bezel with dust filter

SDD Bays

Hot-swap trays	• 24x 2.5" SAS-3/SATA-3 trays (A24) • 48x 2.5" SAS-3/SATA-3 trays (A48)

Storage Processing Power

Cache	• 32GB CISC cache (up to 512GB) • 1GB/2GB RISC cache* (up to 4GB)

Licenses

Storage	• License 4TB included* Expansion of License up to 8/16/32/48/unlimited
Licensed Features	• Multilevel Cache Technology • Synchronous Mirroring • Management • iSCSI Target Functionality • iSCSI Initiator Supply • iSCSI Auto-Failover • FC Target Functionality • FC Initiator Supply • Snapshots • Email Notification
Optional Features	• Active/Active

Dimensions

Formfactor	• 4U rackmount black
Physical Dimensions	• 437x178x737mm
Weight	• ~50kg*

novarion®

* Dependent on model