

LX-4/100-T12
LX-4/100-A24

TACVON[®]

LX

HA SAN for Small and Medium Business

Very Cost Effective HA SAN

SMB optimized Solution

Active/Active Option

High Reliability

pursue perfection



Tacyon® LX-4/100-T12
Tacyon® LX-4/100-A24

SMB optimized HA/DT SAN

- Tacyon® LX-4 represents a High Availability SAN environment, optimized for Small and Medium Business needs. A storage cluster with enhanced Automatic Failover Technology guarantees the operation of the system even in case of a site failure.

Multilevel Cache Technology

- Multilevel Cache Technology: CISC Cache, RISC Cache and SSD Cache provide excellent performance.

Wide Range Data Replication

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

Monitoring

- Tacyon® LX 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.

Comprehensive SAS-3 Technology

- The system embracing the SAS-3 technology sets new standards in the field of data transmission for HDDs and SSDs. Especially SSDs that had been working at the upper limit of their interfaces before, now again have sufficient space to guarantee the implementation of the requirements to the system. A connection of 12 gigabits per second per disk equates to a gross data rate of up to 1.5 gigabytes or to 375,000 4k blocks per second.

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.

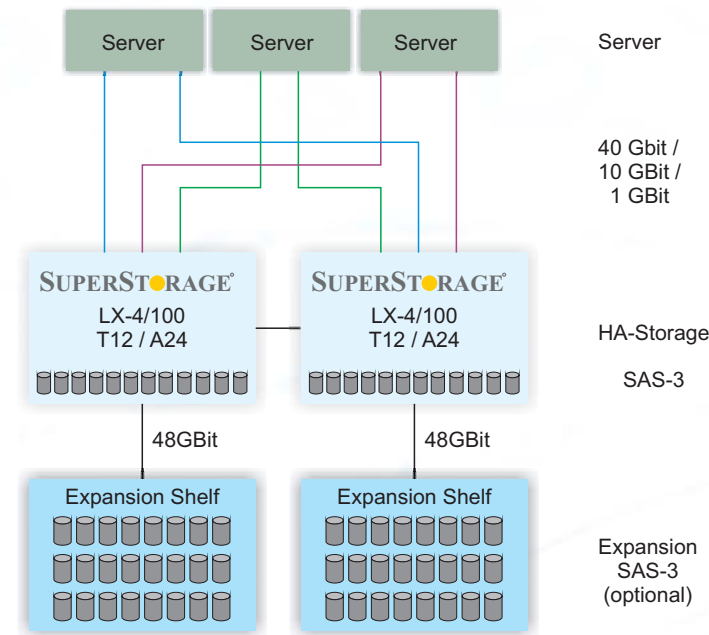
Multi-Tier Investment Protection

- Existing hardware, even from different manufacturers can continue to be used, Tacyon® platforms can also be used in Tacyon® 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.

* Active/Active requires a license



saved! forever

Outstanding Data Integrity

- Each Tacyon® 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®, 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 are supported, including iSCSI over 1GBE, 10GBE, 40GBE copper and optical (RJ-45 / SFP+/QSFP+).

Enhanced Maintenance

- The Tacyon® LX 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.

TECHNICAL SPECIFICATIONS

Administration

Management	<ul style="list-style-type: none">• Webbased GUI• Secured administrator access• Multiple management levels
Tools	<ul style="list-style-type: none">• SSL connection for WebGUI• Console-Tools• Performance-Tools• Remote access via web for the console• Remote access also on offline systems
SNMP	<ul style="list-style-type: none">• SNMP based monitoring

Network

Management	<ul style="list-style-type: none">• Webbased GUI• Secured administrator access• Multiple management levels• SSL connection for WebGUI
Connectivity	<ul style="list-style-type: none">• Support of multiple network cards with grouping and failover• 2x Gigabit RJ45<ul style="list-style-type: none">Up to 12x Gigabit RJ45 (optional) orUp to 16x 10 Gigabit Ethernet (optional) orUp to 4x 40 Gigabit Ethernet (optional) orUp to 4x 16 Gigabit Fibrechannel (optional)Up to 8x 8 Gigabit Fibrechannel (optional)

Memory Management

Integration of Resources Volumes	<ul style="list-style-type: none">• iSCSI Initiator• Target mode (SAN)• Support for physical volumes with more than 2TB• Support for logical volumes with more than 2TB
Snapshots	<ul style="list-style-type: none">• Multiple Snapshots• Multiple logical volumes & groups
Extension features	<ul style="list-style-type: none">• Online extension of logical volumes• Online capacity extension• Spanning of logical volumes over multiple physical volumes
RAID	<ul style="list-style-type: none">• RISC RAID 5/6/10/50/60 with 1GB RISC Cache• RAID level expansion• RAID level migration
Security	<ul style="list-style-type: none">• Internal synchronous volume mirroring• External synchronous volume mirroring with failover (iSCSI volumes)• Asynchronous NAS volume replication over LAN or WAN

iSCSI Features

Security	<ul style="list-style-type: none">• IP address restriction for a target• CHAP user administration• MPIO support
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Monitoring

Monitoring	<ul style="list-style-type: none">• Hardware monitoring• SNMP V2 & V3• Email notification• Log-function• Remote monitoring via web
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Power Security

UPS	<ul style="list-style-type: none">• Local UPS Support• Network-UPS support
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NAS features

User management	<ul style="list-style-type: none">• Windows Active Directory• Primary domain controller• NIS Support• internal & external LDAP support• ADS & NIS user (group ID synchronisation)• User- and group- quota allocation
Filesystem Antivirus	<ul style="list-style-type: none">• Filesystem journaling supported• Antivirus with scheduling function for automatic scanning• Update of the Antivirus Database
Supported Backup Agents	<ul style="list-style-type: none">• Veritas, EMC Dantz, CA BrightStor

Supported hosts and protocols

Supported Hosts	<ul style="list-style-type: none">• Microsoft Windows Server 2012/2011/2008, Linux, Unix, Mac OS 8.0, 9.0, X, 10.4, VMWare, HyperV, XEN
Protocols (SAN)	<ul style="list-style-type: none">• iSCSI (Ethernet), FC
Protocols (NAS)	<ul style="list-style-type: none">• SMB/CIFS, FTP, Secure FTP, Apple Talk, NFS v3

Backup (NAS)

Basic System	<ul style="list-style-type: none">• 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
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Warranty

Basic Warranty	<ul style="list-style-type: none">• 2 years spare part exchange in advance/NBD• Expandable up to 5 years spare part service• Expandable up to 5 years On-Site Service• 10 support-tickets for technical assistance included (dependent on system configuration)
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Front

Buttons LEDs	<ul style="list-style-type: none">• On/Off-button• LED indicating operation• 12 LEDs for HDD activity (T12)• 24 LEDs for HDD activity (A24)
Filter	<ul style="list-style-type: none">• Lockable optical front bezel with dust filter

HDD Bays

Hot-swap bays	<ul style="list-style-type: none">• 12x 3.5" SAS-3 bays (T12)• 24x 2.5" SAS-3 bays (A24)• 2x 2.5" SAS-3, SSD optimized rear bays for Caching
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Storage Processing Power

Cache	<ul style="list-style-type: none">• 16GB CISC cache (Up to 32GB)*• 1GB RISC cache (Up to 2GB)*
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Licenses

Storage	<ul style="list-style-type: none">• License 4TB included• Expansion of License up to 8/16/32/48/unlimited
Licensed Features	<ul style="list-style-type: none">• Multilevel Cache Technology• Synchronous Mirroring• Management• iSCSI Target Functionality• iSCSI Initiator Supply• iSCSI Auto-Failover• FC Target Functionality• FC Initiator Supply• Snapshots• Email Notification• Asynchronous Replication
Optional Features	<ul style="list-style-type: none">• Active/Active

Dimensions

Formfactor	<ul style="list-style-type: none">• 2U rackmount black
Physical Dimensions	<ul style="list-style-type: none">• 437x89x648mm (T12)• 437x89x630mm (A24)
Weight	<ul style="list-style-type: none">• ~33kg (dependent on configuration)

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* Dependent on model