actiNAS XL 1U-4

Cost Effective Disk-based NAS- & Backup System
Based on Server Components,
IPMI 2.0 & dual 10GbE-RJ45 Interfaces

For small and medium-sized businesses that need a reliable 1U rackmount storage system to store files as well as backup sets centrally, the actiNAS XL 1U-4 is the right choice. Four hard drives can be equipped into the Linux-based system and offer more than 50 TeraBytes of storage capacity. The actiNAS XL 1U-4 NAS system is easy to integrate into an existing IT infrastructure via the built-in 10/1Gb-Ethernet RJ45 interfaces. Management will be done via the implemented webGUI as well as the separate RJ45 IPMI 2.0 server management port. The cost effective storage solution includes a three-year limited warranty period with Advance Replacement Service of defective parts (Fast Exchange Service).

Product-Highlights

- Compact 1U Rackmount-Chassis incl. Rail-Set
- Server Motherboard, 2Core Server-CPU, DDR4 ECC reg. RAM
- IPMI 2.0 Redfish via 1GbE RJ45
- Linux-based integrated NAS Operating System
- 4bay-RAID-System for up to 4x SATA-III HDDs / SSDs
- Management via LCD-Panel, web-GUI, or SSH & Telnet
- 2x (dual) LAN-Interfaces 10GbE RJ45, backward compatible to 1 GbE
- Support of SMB (CIFS), AFP, NFS, and iSCSI-Support, Volume-Cloning, Replication, DHCP, ADS, SNMP, and VAAI Support for iSCSI/NFS etc.
- 36 Months limited Warranty incl. Advance Replacement of defective Parts (Fast Exchange Service)
- CF-Configurations (CareFree) incl. 24x7 Enterprise SATA-III HDDs / SSDs

Just store – Data and Backup Sets

The actiNAS XL 1U-4 storage system is ideal as centralized storage within an existing IT infrastructure. RAID-managed Hard Disk Drives (HDD) or Solid State Disks (SSD) provide low-cost storage for an easy storing of data. Alternatively, the backup sets of an disk-based backup can be stored and kept ready. Installed in a separate fire section the backup sets keep available in case of a disaster. If desired, it is also possible to replicate the data to a second actiNAS XL 1U-4.

Reliable through proven Server Components

Equipped with components out of the server class, original Intel server CPU, embedded server motherboard with DDR4-ECC-RAM, and server management port via a separate IPMI 2.0 interface, the actiNAS XL 1U-4 is especially prepared for use within system environments as a separate backup or data storage system with access for authorized users. Two (dual) RJ45 LAN interfaces 10Gb-/1Gb-Ethernet are available for connection to the existing LAN.

36 Months Service and Support inclusive

actiCare service includes a 36-month limited system's warranty including the proven Fast Exchange Service (Advance Replacement of defective Parts) as well as a free technical support via telephone, e-mail, and internet in English. On request, actiCare service extensions are possible up to 60 months.

actiNAS plus

actiNAS XL 1U-4

Disk-based NAS- & Backup System - Applications

Access

Client Group 1

Client Group 2

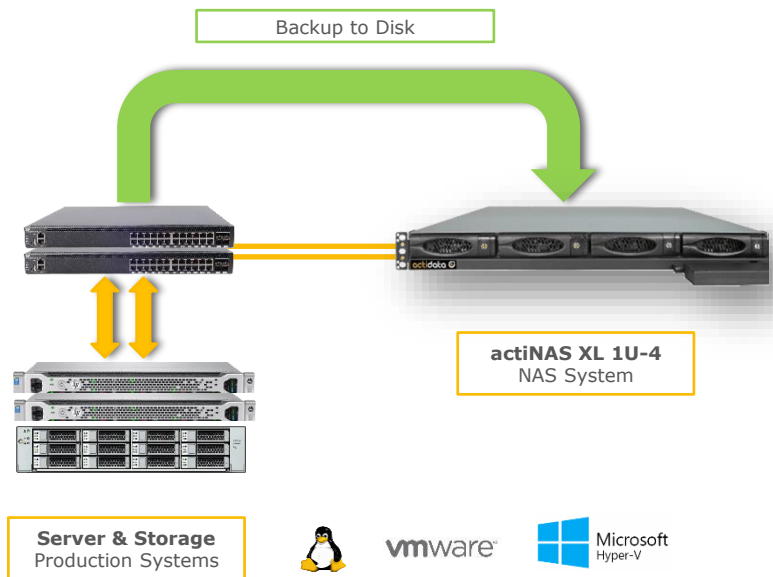**actiNAS XL 1U-4**
NAS System
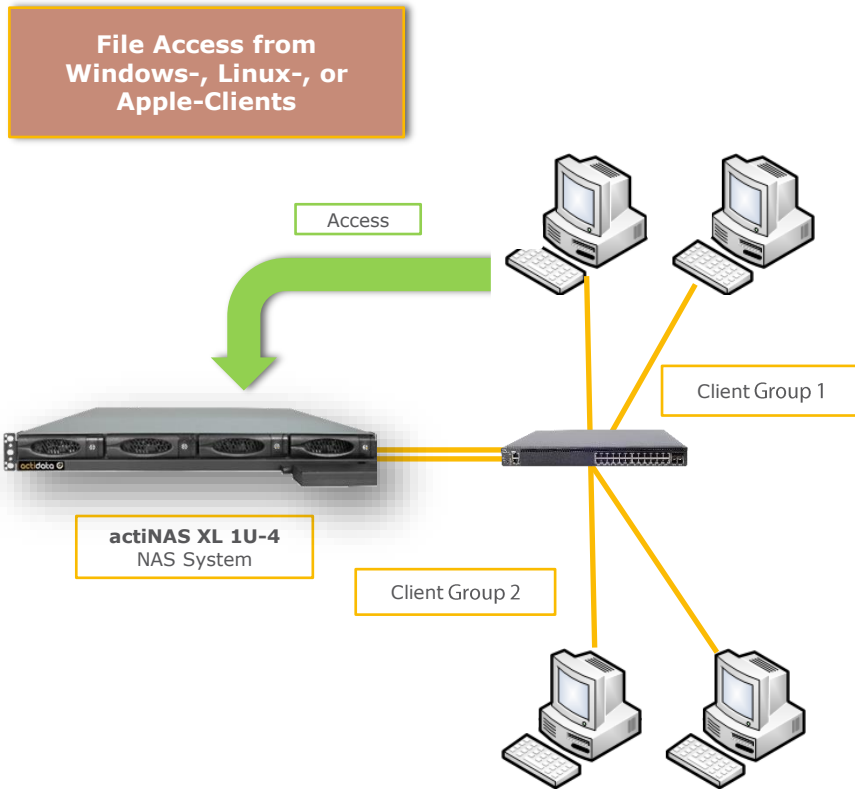
actiNAS XL 1U-4 as centralized Storage

Especially in small businesses, small workgroups or branches, the actiNAS XL 1U-4 is optimal used as a central NAS storage (NAS = Network Attached Storage). Users simply access the system from their workstations via an 1 GbE or 10 GbE infrastructure. The actiNAS XL 1U-4 is easily managed via a user-friendly web GUI. Here, among other things, the settings for the RAID engine, RAID levels with or without hot spare HDD/SSD can be set. Similarly, the status of the server hardware may be also be monitored remotely via the separate IPMI 2.0 RJ45 interface as part of an managed service agreement. This significantly reduces on-site maintenance work.

actiNAS XL 1U-4 for storing Backup Sets

Installed in a separate fire section and connected via (dual) RJ 45 10Gb-/1Gb- Ethernet interfaces, the actiNAS XL 1U-4 is an ideal backup target for enterprise-wide backup software. Databases, virtual environments, and applications are possible to be backed up executing a backup-to-disk (B2D) backup strategy using leading Backup Software.

Acronis **VERITAS**

arcserve **veeam**

NOVASTOR

ARCHIWARE **SEP** Backup & Disaster Recovery

Barracuda

Backup to Disk

actiNAS XL 1U-4
NAS System

Server & Storage Production Systems

vmware Microsoft Hyper-V

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Front View:

actiNAS XL 1U-4

LCD Panel

4x Drive Carrier for 24x7 Enterprise
SATA-III HDDs/SSDs hot-swap, lockable

POWER EXIT

LCD Panel
IP, Status, Alarm

Buttons

Rear View:

actiNAS XL 1U-4

Main Switch
On / Off

Power Connector
240V / 50Hz

2x USB 3.0

VGA

Power Supply
80PLUS 250W

Dual LAN
10/1 GbE RJ45
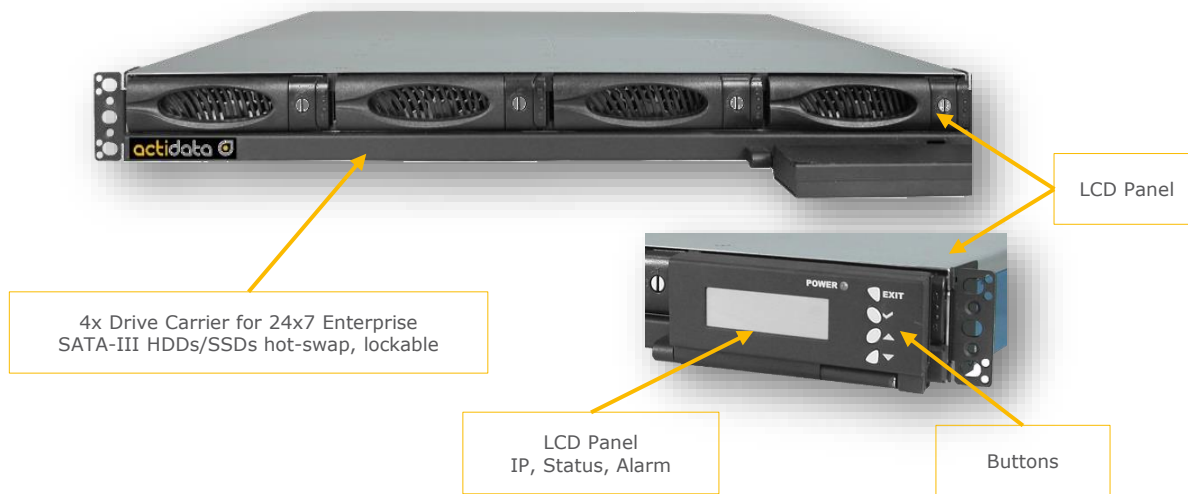
IPMI 2.0 Redfish
GbE RJ45
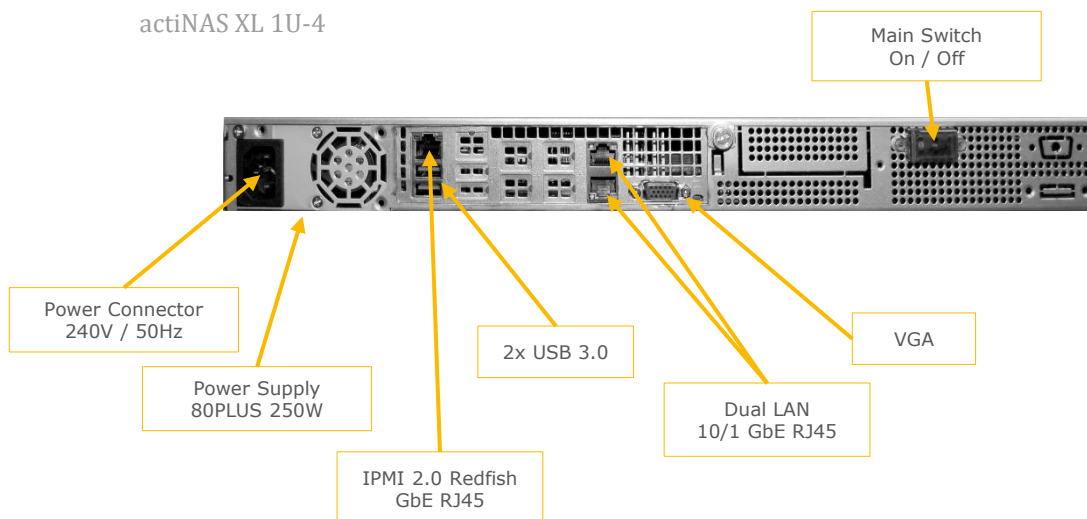
Function Overview NAS System:
(Extract)

System Management	Web-GUI, SSH, telnet, Unicode-Support, Setup-Wizard, SNMP, IPMI 2.0 Redfish
Storage Management	EXT3/EXT4/NTFS-Volume-Management, iSCSI, VAAI-Support
Storage Operating System	RAID 0, 1, 5, 10 incl. hot-spare, Online Capacity Extension Error Management, Statistics
Networking	Active Directory Support (ADS), MS Domain Controller (PDC), DHCP Server/Client, WINS-Server, web-Server, NIC-fail-over
Protocols	TCP/IP, SMB(CIFS), NFSv3, NFSv4, AFP, ftp, sftp, http, https
Backup Function	Volume-Cloning, Data-Copy, scheduled Backup (full, incremental), rsync
Supported Operating Systems	Windows 7/8.1/10, Windows Server 2016/2019, Linux/Unix, MacOS

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actiNAS XL 1U-4

Disk-based NAS- & Backup System– Technical Data

Product Type	actiNAS XL 1U-4
Description	Disk-based NAS- & Backup System as 1U Rackmount with 4x HDD/SSD Drive-Carrier
Application	Storage System for 1GbE or 10Gb Ethernet Infrastructures i.e. as NAS- or Backup System for Servers / Clients
Storage Operating System	Linux-based NAS-System with integrated RAID Functionality as well as ADS/NIS- and DHCP-Support incl. internal Backup- and Restore Functions
NAS Function	i.e. File-Server, Shares with Support for SMB (CIFS), NFS, AFP (Apple-Talk), iSCSI Target Volumes, ftp-, and sftp-Server
Backup Function	Scheduled Backup / Restore, Data Replication Volume Cloning, Data Copy and –Synchronization
Chassis / Scope	Robust Metal Chassis in 1U Form Factor incl. Rail Kit 4bay SATA-III HDD/SSD hot-swap Drive Carrier (lockable) as well as a LCD-Panel at the front Side
Processor / Motherboard	Server-CPU Intel Xeon D-1508, 2,6GHz, 2core, Server Motherboard (IoT embedded)
Memory (RAM)	Default: 8GB DDR4 ECC reg. Upgrade up to: 128GB DDR4 ECC reg.
No. of HDDs/SSDs	Up to 4x SATA-III
Configuration	Without HDDs/SSD or as CF Configuration (CareFree) with Enterprise SATA-III HDDs (Specification: 550TB/anno) 2TB / 4TB / 8TB / 10TB / 12TB / 14TB / 16TB / 18TB
RAID Management	Fault tolerant RAID-Engine with RAID-Level 0, 1, 5, 6, 10 incl. Hot-Spare, Online Capacity Extension, Volume-Management, and Disk Statistics
LAN Interfaces (Ethernet)	2x (dual) 10 GbE RJ45 (downward compatible to1 GbE)
System Management	Access Operating System: via Web-GUI, SSH, Telnet Access Hardware-Management: via IPMI 2.0 Redfish, SNMP
System Interfaces	Rear Side: 2x USB 3.0, 1x VGA,1x separate GbE RJ45 (IPMI 2.0)
Extension	Yes, Capacity Extension with additional HDDs/SSDs in free Drive Carriers
Power	110-240V (Full Range), 50-60Hz, max. 250W, 80PLUS Standard Idle: ca. 40W, Operation: ca. 76W Air Stream under Operation: ca. 255Btu/h – ca. 270KJ/h
Environment	10-35 Degree Celsius 10-85% Humidity – not condensing
Dimension Weight	44 mm x 446 mm x 500mm (HxWxD) ca. 7,6 kg w/o HDDs/SSDs / ca. 8,8 kg incl. 4x HDDs
Limited Warranty	36 Months (3 Years) Incl. Fast Exchange Service (FESc) – Advance Replacement of defective Parts Incl. E-Mail/Internet Support & Telephone-Hotline
Service Option	Up to 60 Months (5 Years) Incl. Fast Exchange Service (FESc) – Advance Replacement of defective Parts
Certification	CE, TÜV-Safety, RoHS