actiNAS XL 2U-12

Compact & Powerful Disk-based NAS- & Backup System
Based on Server Components, IPMI 2.0,
dual 10GbE SFP+, dual 1GbE RJ45 Interfaces

Network Attached Storage systems (NAS) are mostly part of any IT environment. For small and medium-sized companies that need a reliable NAS storage system to store their files centrally, the actiNAS XL 2U-12 is the right choice. Up to twelve enterprise-class SATA-III hard drives can be flexibly configured, providing a capacity of more than 100 terabytes usable by customer. Among other things, access to existing LANs will be realized via dual optical 10Gb-Ethernet and dual 1GB-Ethernet RJ45 interfaces. The management of the actiNAS XL 2U-12 will be done via an intuitive web-GUI as well as using the separate interface with IPMI 2.0.

Product-Highlights

- Compact 2U Rackmount-Chassis
- Server Motherboard, 4Core Server-CPU, DDR4 ECC reg. RAM
- IPMI 2.0 Redfish via 1GbE RJ45
- Dual, redundant Power Supply
- Linux-based integrated NAS Operation System
- 12bay-RAID-System for up to 12x SATA-III HDDs / SSDs
- Management via LCD-Panel, web-GUI, or SSH & Telnet
- 4x LAN Interfaces dual 10GbE SFP+, dual 1GbE RJ45
- Support of SMB (CIFS), AFP, NFS and iSCSI-Support, Volume-Cloning, Replication, DHCP, ADS, SNMP, und 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

Data, Data, Data ... and Backup Sets as well

The actiNAS XL 2U-12 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 2U-12.

Reliable through proven Server Components

Equipped with components out of the server class, original Intel server CPU, embedded server motherboard with DDR4-ECC-RAM, dual redundant power supply, and server management port via a separate IPMI 2.0 interface, the actiNAS XL 2U-12 is especially prepared for use within system environments as a separate backup or data storage system with access for authorized users. Two (dual) optical LAN interfaces 10GbE SFP+ as well as dual 1GbE RJ45 are available for connection to the existing LAN.
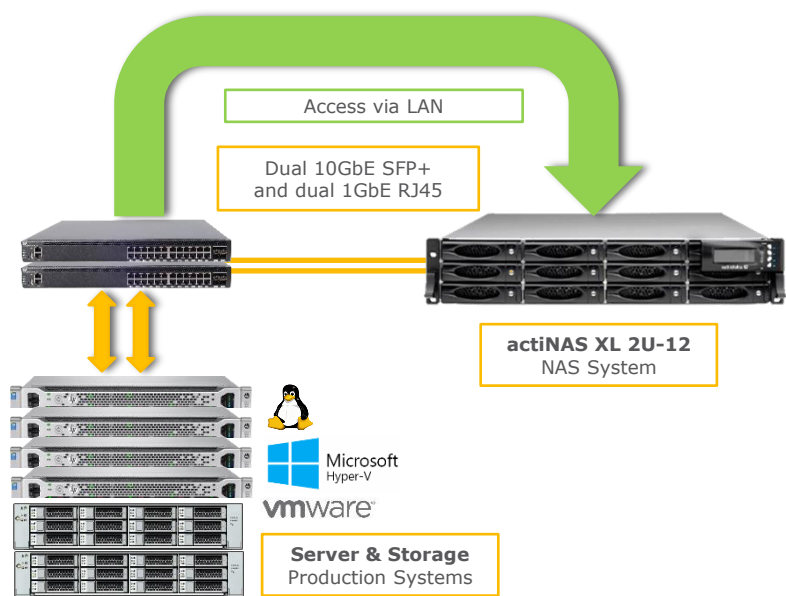
36 Months Service and Support inclusive

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.

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Compact Disk-based NAS- & Backup-System - Applications

Centralized Storage System
1. Storing of User Data (Files)
2. Target/Storing of Backup Sets

Access via LAN

Dual 10GbE SFP+
and dual 1GbE RJ45

actiNAS XL 2U-12
NAS System

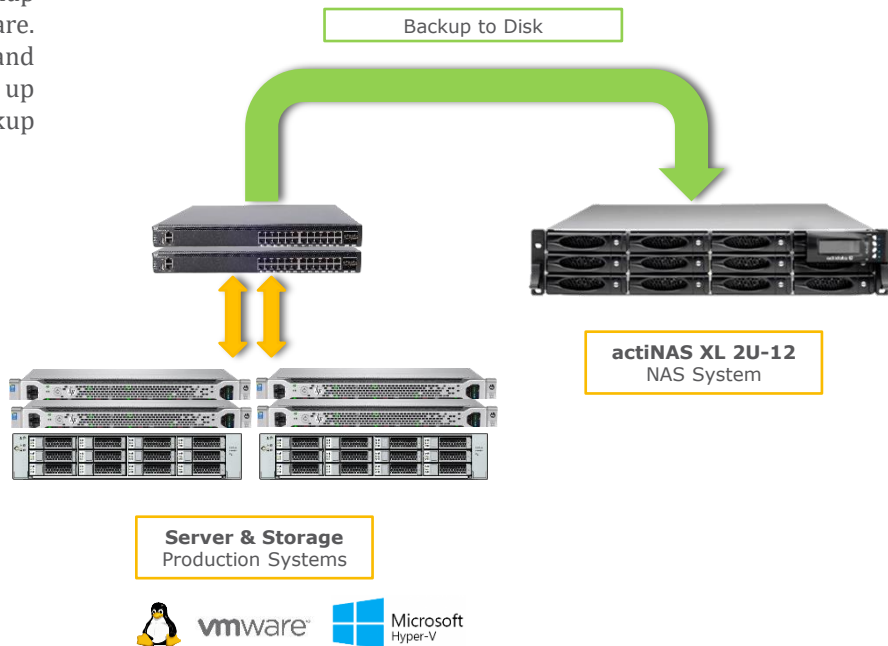**Server & Storage**
Production Systems

actiNAS XL 2U-12 as centralized Storage

Especially in small businesses, small workgroups or branches, the actiNAS XL 2U-12 is optimal used as a central NAS storage (NAS = Network Attached Storage). Users simply access the system from their workstations via an 1 Gb- or 10 Gb-Ethernet infrastructure. The actiNAS XL 2U-12 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 2U-12 for storing Backup Sets

Installed in a separate fire section and connected via dual optical 10GbE SFP+ as well as dual RJ 45 1Gb-Ethernet interfaces, the actiNAS XL 2U-12 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.
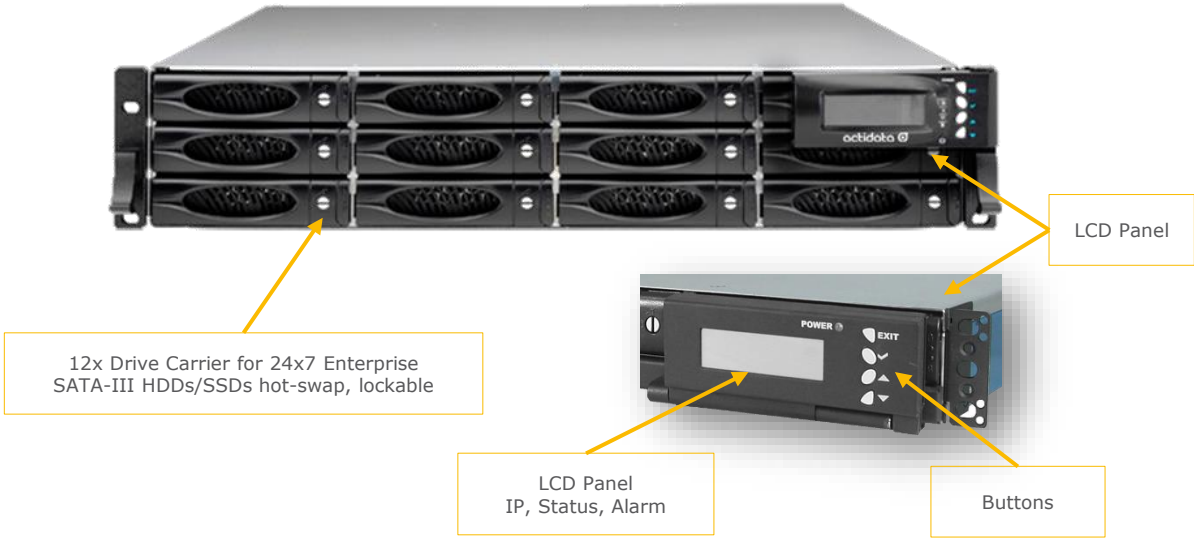
Backup-to-Disk
As target for Backup-Sets

Backup to Disk

actiNAS XL 2U-12
NAS System

Server & Storage
Production Systems

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Front View:

actiNAS XL 2U-12

LCD Panel

12x Drive Carrier for 24x7 Enterprise
SATA-III HDDs/SSDs hot-swap, lockable

LCD Panel
IP, Status, Alarm

Buttons

Rear View:

actiNAS XL 2U-12

Main Switch
On / Off

Power Connectors
240V / 50Hz

Dual, redundant
Power Supply 400W

2x USB 3.0

IPMI 2.0 Redfish
GbE RJ45

Dual LAN
GbE RJ45

Dual LAN
10GbE SFP+

VGA
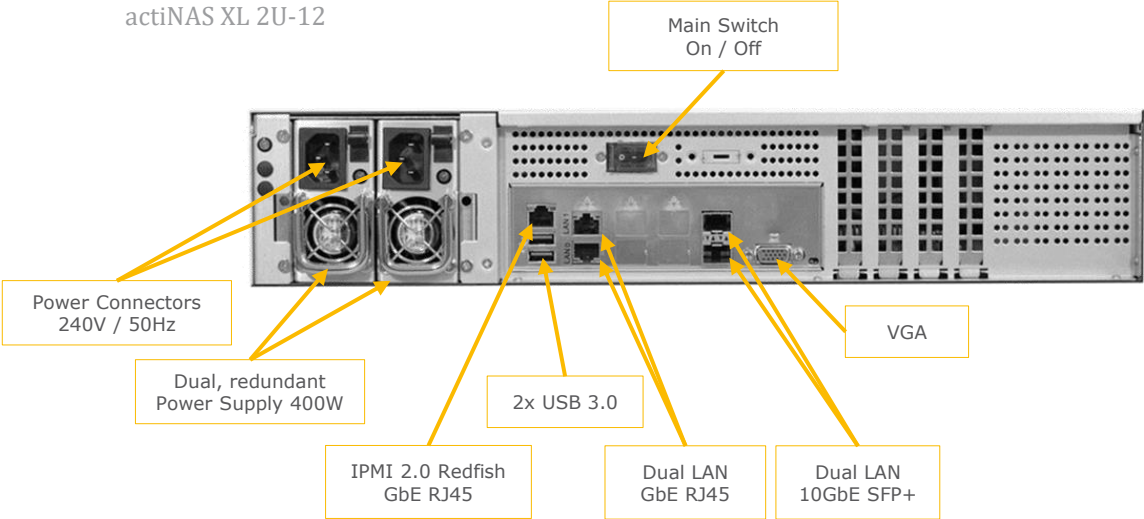
Function Overview NAS System:
(Extract)

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, 50, 60 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 2U-12

Compact Disk-based NAS- & Backup-System – Technical Data

Product Type	actiNAS XL 2U-12
Description	Compact Disk-based NAS- & Backup System as 2U Rackmount with 12x HDD/SSD Drive-Carrier
Application	Storage System for 1GbE and 10Gb Ethernet Infrastructures i.e. as NAS- or Backup System for Servers / Clients
Storage Operation System	Linux-based NAS-System with integrated RAID Functionality as well as ADS/NIS- and DHCP-Support incl. internal Backup- and Restore Functions
NAS Funktion	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 2U Form Factor incl. Rail Kit 12bay 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-1518, 2,2GHz, 4 Kerne, Server-Motherboard (IoT embedded)
Memory (RAM)	Default: 8GB DDR4 ECC reg. Upgrade up to: 128GB DDR4 ECC reg.
No. of HDDs/SSDs	Up to 12x 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, 50, 60 incl. Hot-Spare, Online Capacity Extension, Volume-Management, and Disk Statistics
LAN Interfaces (Ethernet)	4x LAN: 2x (dual) 10 GbE SFP+ and 2x (dual) GbE RJ45
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	Dual PSU: 110-240V (Full Range), 50-60Hz, max. 400W, 80PLUS Standard Idle: ca. 45W, Operation: ca. 110W Air Stream under Operation: ca. 375Btu/h – ca. 395KJ/h
Environment	10-35 Degree Celsius 10-85% Humidity – not condensing
Dimension Weight	88 mm x 482 mm x 500mm (HxWxD) ca. 13,0 kg w/o HDDs/SSDs / ca. 16,6 kg incl. 12x 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

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