NASdeluxe iSCSI/NAS

The NASdeluxe iSCSI/NAS System offers NAS, iSCSI and FC (target and initiator) functionality with enhanced management and superior reliability to organizations of all sizes.

Driven by a powerful **areca**® SAS RAID controller with Intel IOP348-1200MHz CPU, high Data Transfer Rates are possible with 15k SAS and/or 7.2k SATA HDDs.

■ **Expandable with JBODs via SAS-Expansion-Port**

■ **Snapshot functionality**

■ **Hardware-based RAID Level 5 and 6 for data protection**

■ **iSCSI-Clustering of 2 servers** (with DSS-Module)

Serial Attached SCSI

iSCSI/NAS System NDL-3016R/L with 16x HDD bays

The NASdeluxe iSCSI/NAS is a very flexible and OS independent Storage-System. There is no additional cost to connect to the NASdeluxe via iSCSI - just use the iSCSI initiator delivered with the client´s OS. If the NASdeluxe works as NAS, no additional driver is needed.

Components with best quality, redundant PSUs and High-Availability with RAID Level 6 are standard.

Highlights (with DSS-Module):

- Out of the box iSCSI/NAS Server solution with *open-e* Plug & Play USB module
- supports Virtualisation (VMware ESX Server 3.5 certified)
- Supported Network Clients and Network File Protocol: SMB/CIFS, FTP, Secure FTP, HTTP, Apple Talk, NFS v2, v3
- supports Jumbo Frames
- inexpensive and powerful storage solution
- integrated Antivirus software tool
- Snapshot functionality
- supports Automatic Failover
- integrated Volume Replication
- **areca**® SAS RAID-Controller
- up to 24x SAS/SATA HDDs internal
- integrated Expansion-Port for JBODs and additional 48 HDDs
- "Hot Swap" HDDs
- Slim DVD drive inclusive
- redundant Power Supply Units, hot-swap
- 3Gbit/s SAS technology for max. Data Transfer Rates
- SAS/SATA HDDs intermix is possible
- Webbrowser based Graphical User Interface (GUI) with SSL for max. security (multilingual)
- supports Windows Active Directory, External LDAP, NIS, Quota
- different management levels (fully access, service, administration)
- Administration everytime from everywhere (via integrated Remote Management Card)

open-e Operating System:

Open-E Data Storage Server adds new backup capabilities, simplified setup and storage management, extensibility, and is especially tuned to provide optimal data throughput and data protection for centralized storage. Open-E DSS increases iSCSI target efficiency by supporting multiple iSCSI initiators on different volumes, without sacrificing NAS performance.

Independent tests have shown that the Open-E storage software is offering one of the best data throughput and performances. This makes Open-E DSS especially suitable for network environments with many clients or storage applications for multi-video streaming, HDTV and others, needing a high data throughput and I/O. The integrated performance features of the Open-E DSS provide tuning tools like: Multipath I/O (MPIO), teaming of multiple NICs, Jumbo Frames settings, parameter settings of drivers, support for up to 32 CPUs, support for FC-HBA´s, 10GbE Cards, InfiniBand, Intel I/O AT and TCP/IP Offload Engines.

powered by: **open-e**

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Technical Data

Model	NDL-3008T/L	NDL-3208R/L	NDL-3008R/L	NDL-3016R/L	NDL-3024R/L
HDDs (max.), hot-swappable	8x 3.5 FF	8x 2.5 SFF	8x 3.5 FF	16x 3.5 FF	24x 3.5 FF
Dimensions: (WxHxD)/mm Enclosure	178x437x648 Tower	437x43x597 1U	437x89x648 2U	437x132x648 3U	437x178x660 4U
Rails	-	inclusive	inclusive	inclusive	inclusive
PSUs, redundant	2x 800W	2x 650W	2x 700W	2x 800W	2x 900W
Weight (without HDDs)	18kg	9,5kg	18kg	24kg	25,5kg
CPU	1x Intel Xeon Quad Core CPU, 2.5GHz (optional 2x CPU)				
Mainboard	Supermicro				
RAM Memory	8GB ECC Reg. (optional up to 64GB)				
DVD-ROM	inclusive				
Fibre Channel HBAs	optional				
LAN	4x Gigabit Ethernet (optional additional 1/10Gigabit NICs)				
Management	Remote-Management via IPMI-Module Web-Browser based, Graphical User Interface (GUI) with SSL for maximum security				
Supported OS	OS independent				
RAID Controller *areca®*	ARC-1680ix-08			ARC-1680LP	
Controller CPU	Intel IOP348-1200				
Controller Cache Memory	512MB				
Controller BBU	optional				
RAID Level	0, 1,1E, 3, 5, 6, 10, 30, 50, 60				
Disk Interface	SAS (3GBit/s)/SATA II (3GBit/s)				
Expansion	SAS Expansion-Port for JBODs				
Warranty	3 years				
Service	optional				

Operating systems (useable for all models):

open-e Module (OS)	DSS (iSCSI/NAS)	iSCSI-R3 (iSCSI)	NAS-R3 (NAS)
Functionality	Snapshots, Worm, Data Replication, Clustering, Automatic Failover, Volume Replication, VMware ESX 3.5 certified	Snapshots, Clustering	Snapshots, Data Replication
Hardware-Monitoring	Management via Ethernet	Management via Ethernet	Management via Ethernet
Antivirus Software	integrated tool, upgradeable	-	integrated tool, upgradeable

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