

# NASdeluxe iSCSI/NAS

Microsoft Windows Storage Server 2008 R2 is built upon an optimized release of the reliable and flexible file services of Windows Server 2008 for better file serving performance. Microsoft then adds advanced storage technologies such as file deduplication and an iSCSI software target for unified file- and block-based storage and packages it for delivery within storage appliances.

Similarly, NASdeluxe offers specialized hardware and introduce additional software components to create Windows Storage Server 2008 R2-based appliances.

Windows-powered storage appliances such as NASdeluxe NDL-3000R/W give customers new storage capabilities, simplified deployment and easier management while assuring seamless synergy in their Windows infrastructure in a cost-effective and high-performance platform, and is delivered through NASdeluxe.



## 10 Gbit/s iSCSI



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

Microsoft Windows Storage Server 2008 R2 provides file services that are built upon the reliable and flexible file services within Windows Server 2008. Windows Storage Server 2008 R2 provides a solid mid-market to enterprise file serving solution with easy manageability and powerful file serving features on a mature base platform and using industry standard hardware.

Windows Storage Server 2008 R2 is optimized from WS08 for performance in the file serving role, as well as by the hardware partner from basic server configurations - but maintains compatibility with other Windows management tools from Microsoft and third-party Windows solutions.

### Advanced Storage Technologies

Windows Storage Server 2008 R2 extends the basic functionality of a file server providing advanced technologies including file & block storage with iSCSI and data deduplication capabilities with SIS. These extended functionalities are designed to be easy-to-use and function transparently to the users of the organizations file infrastructure and require very little maintenance.



Inside view with 1x Intel Xeon CPU (passive cooled)

- iSCSI Target 3.3
- SMB 2.1, NFS
- SAS Expansion-Port for more capacity with additional JBODs
- Snapshot functionality
- RAID Level 5 and 6 for data protection
- Clustering with "Enterprise" version

### Highlights:

- Microsoft Windows Storage Server 2008 R2 Standard x64/ Enterprise x64
- unlimited number of clients & printers
- Snapshot functionality
- Single Instance Storage (SIS = Deduplication)
- Server Message Block (SMB) 2.1 provides faster, more efficient and more reliable file sharing, optimized for high-latency, lower reliability networks
- Supports MPIO (Multipath I/O) for optimized availability by providing multiple paths (path failover)
- Easily integration in existing SANs
- iSCSI-Support (Target/Initiator)
- Clustering (up to 8 Nodes) with "Enterprise" version

[www.NASdeluxe.com](http://www.NASdeluxe.com)



# NASdeluxe iSCSI/NAS

## Technical Data



Modell	NDL-3208R/W	NDL-3008R/W	NDL-3224R/W	NDL-3016R/W	NDL-3024R/W	NDL-3008T/W
HDDs (max.), hot-swappable	8x 2.5 SFF	8x 3.5 LFF	24x 2.5 SFF	16x 3.5 LFF	24x 3.5 LFF	8x 3.5 LFF
Dimensions: (WxHxD)/mm	437x43x597	437x89x648	437x89x630	437x132x648	437x178x660	178x437x648
Enclosure	1U	2U	2U	3U	4U	Tower
Rails	inclusive	inclusive	inclusive	inclusive	inclusive	-
PSUs, redundant	2x 650W	2x 700W	2x 900W	2x 800W	2x 900W	2x 720W
Weight (without HDDs)	9.5kg	18kg	21kg	24kg	25.5kg	18kg
DVD-ROM	inclusive	inclusive	-	inclusive	inclusive	inclusive
CPU	1x Intel Xeon Quad-Core CPU, 2.4GHz and higher frequency (optional 2x CPU)					
Mainboard	Supermicro					
RAM	12GB ECC Reg. (optional up to 96GB)					
Fibre-Channel HBAs	optional					
LAN	4x Gigabit Ethernet (optional additional 1GbE/10GbE NICs)					
Management	Remote-Management via IPMI-Module					
Supported OS	OS independent					

### RAID-Controller

RAID-Controller	Areca ARC-1880LP
Controller CPU	800MHz RAID-on-Chip
Controller Cache Memory	512MB
Controller-BBU	optional
RAID Level	0, 1, 1E, 3, 5, 6, 10, 30, 50, 60
Disk Interface	6Gbit/s SAS/SATA II
Expansion	6Gbit/s SAS Expansion-Port for JBODs
Warranty	3 years (optional 5 years)
Service	optional advanced replacement service/on-site service

### Operating System Microsoft Windows Storage Server 2008 R2, x64 Edition

Operating System version	Standard	Enterprise
Supported RAM	up to 32GB	up to 2TB
Clustering	-	inclusive (up to 8 Nodes)
Functionality	Single Instance Storage (SIS = Deduplication), Data replication, Snapshots, SMB 2.1, NFS, WebDAV, Print, DHCP	

All company- and productnames are trademarks and/or registered trademarks of their respective owners. Design and technical specifications are subject to change without notice. © NASdeluxe 2/2011 v2.2.



[www.NASdeluxe.com](http://www.NASdeluxe.com)

Info:

Starline Computer GmbH  
 Carl-Zeiss-Str. 27-29 • 73230 Kirchheim/Teck • Germany  
 Tel.: +49 (0)7021 48 72 00 • Fax: +49 (0)7021 48 74 00  
[www.starline.de](http://www.starline.de) • [info@starline.de](mailto:info@starline.de)

