



HELIOS: HDN-5008

SMB 8 Bay Disk-less Desktop NAS

Excellent performance packed in our smallest eight bay desktop model ever. Meet HDN-5008 the SMB workhorse that simplifies storage needs at the push of a button. The simplicity of the web interface powers you to make most configuration changes with the click of a mouse. Our NAS solutions are powered by the world's #1 storage OS.



File sharing across platforms

File sharing across platforms empowers you to connect a variety of clients from different architectures. Clients running any enterprise operating system can connect with either SMB/CISF style Windows file shares, Network File System (Unix or Unix like shares) and Apple File Shares. If that wasn't enough why no harness the power of FTP, iSCSI (block sharing) and WebDAV. Supporting various platforms is now easy, Windows, Mac OS X, and several Linux distributions can now connect with no additional software or configuration. There's also bundled support for Time Machine backups for offices with clients that run Apple OS X.



Intuitive web interface

We understand our clients and their needs. We understand that simplifying complex administrative tasks is vital to streamlining workflow for system administrators. Every day to day administrative task can be done from the convenience of your mouse and a web browser. The step by step setup process further simplifies configuration. Tasks such as volume creation or setting devolved permissions for specific shares or updating your system can be done with confidence. For folks who prefer hands-on control there's also the option to log into the FreeBSD shell prompt. From the software design to feature selection a testing the storage OS is designed with one key goal - ease of use.



Enterprise-grade ZFS protection

Our storage OS is powered by ZFS which is designed for data integrity inside and out. RAID-Z, the software RAID that is part of ZFS offers single parity protection like RAID 5, but without the "write hole" vulnerability thanks to the copy-on-warchitecture of ZFS. The additional levels RAID-Z2 and RAID-Z3 offer double and triple parity protection, respectively. A software mirror option is also available. When creating a new volume the setup wizard form updates with available parity options depending on number of disks you have selected, thus removing the guesswork from the process. Every ZFS filesystem is also verified with checksums from top to bottom to ensure data integrity. If inconsistencies are found, parity blocks can be used to repair corrupt data. A regular scrub is turned on by default and can be rescheduled or configured from the web interface.



On-demand, enterprise-level snapshots make data loss a thing of the past

Accidents can happen, which is why and thanks to ZFS, snapshots of the entire filesystem can be made and saved at any time. As long as a snapshot administrators can access files as they were when the snapshot was made Snapshots can be made on a one-off basis or scheduled as a cron job from the web interface. At any time, the entire filesystem can be rolled back to the most recent snapshot. Older snapshots can be cloned and accessed to recover data from that version of the filesystem. From the web interface, users can see how much space a particular snapshot is occupying on the volume and delete, clone, or roll back to individual snapshots as needed.



Local and remote replication

Snapshots aren't just local backups, in fact they can be saved on remote locations as well. Replicating snapshots of the file system to a remote ZFS file system creates an exact duplicate. Backing up large amounts of data often can consume large bandwidth which is why ZFS snapshots can be sent incrementally, bringing down the size of each backup to just the changes that were made since the last snapshot. When disks fail or data on disk becomes inconsistent or corrupt it is straight forward to restore a remotely saved backup on to a fully functioning machine wit minutes.



Encryption

We understand the value of data which is why encryption is at the forefront of our product design. Entire volumes can be encrypted during initialization, providing industry-standard AES-XTS encryption which can be hardware-accelerated (when

the processor has AES-NI capability). Encrypted volumes can only be read FreeNAS systems in possession of the master key for that volume. The user can optionally create a passphrase to add extra protection for their system against loss or theft. Encryption allows for confidence when retiring and recycling hard drives because the drives no longer need to be wiped provided the master keys obliterated.

ZFS IS DESIGNED FOR BUSINESS

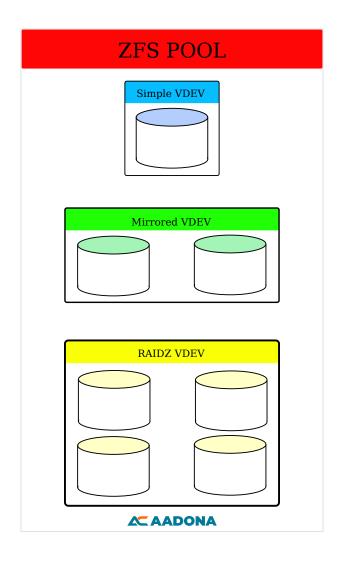
ZFS is an enterprise-ready file system and volume manager with unprecedented fiexibility and an uncompromising commitment to data integrity. ZFS is a truly next-generation file system that eliminates most, if not all of the shortcomings found in legacy file systems and hardware RAID devices. Once you go ZFS, you will never want to go back.

Businesses can not afford data loss and creating snapshots ensures that your data is safe and never lost. ZFS creates a chain of trust for your data by checksumming data when it is written and verifying the checksums when it is read. It even checksums the metadata that describes the file system and allows you to periodically verify all checksums to determine if your infrequently-used data or backups are suffering silent data corruption. By taking these precautions, ZFS will never return you corrupt data from disk.

PROTECTION AND SECURITY FOR YOUR CRITICAL DATA

The Helios range is designed keeping in mind business needs for maximum uptime. Downtime can reduce productivity and profitability and we wanted to design our NAS products keeping this in mind. The Helios range offers peace of mind to administrators in the form of all the standard RAID options

- Mirrored VDEV's (similar to RAID1)
- Striped Mirrored VDEV's (similar to RAID10)
- RAIDZ (one disk parity)
- RAIDZ2 (two disk parity)
- RAIDZ3 (third disk parity)
- Nested RAIDZ (similar to RAID50 or RAID60)



SEAMLESS INTEGRATION WITH BUSINESS PROCESSES

Businesses today are multi-channel, cross-department, intra team arrangement of staff working at peak efficiency and this arrangement shouldn't have to change from the introduction of new hardware. The Helios range is designed to adapt to your business processes and not the other way round.

We also take the guesswork out of configuring your NAS. ZFS helps you avoid most storage planning mistakes by pooling together the blocks provided by all of your disks and allowing you to divide the available space into highly-configurable file systems. ZFS includes the permissions and quotas of traditional file systems but also includes transparent compression levels, capacity reservations, and clonable snapshots. This allows administrators to seamlessly integrate their permissions structure in line with their team structure and organization work environment.

SPECIFICATIONS

Maridware encryption engine	Hardware specifications				
Installed memory 868 Memory Jolos 4 Drive bays 8 3.5" Yes 2.5" Yes (addoin bracket required) SSD Yes Number of HDD slots 8 Maximum Capacity Supported 128 TB FHYSICAL INTERACES USB 1 Expansion Port 1 1G RJ45 LAN 1+1 ports PCIE 3.0 x4 1+1 ports Physical Specifications 315mm x 275mm x 197mm Size (DXWH) 315mm x 275mm x 197mm Weight 5.6 kg System fan 2 AC Input power voltage 5.6 kg Power Supply 50060Hz, single phase Power Supply 50060Hz, single phase Power Supply 50000m (16.400 ft) Operating temperature 50000m (16.400 ft) Storage temperature 750 kg by RH Supple Filing Protocol (AFP) Yes Apple Filing Protocol (AFP) Yes WebDAY Yes SMB	CPU		Intel Core i5 (Quad core)		
Memory slots Drive bays 3.5." \$2.5" Yes [addon bracket required]) Yes [Addon bracket required] Yes [Addon bracket requi	Hardware encryption engine		Yes		
Drive bays 3.5° 3.5° Yes Ves (addon bracket required) Yes Number of HDD stots Maximum Capacity Supported PHYSICAL INTERFACES USB Expansion Port 16 Ry5 LAN PCle slots Physical Specifications Size (DXW3H) Weight System fan AC input power voltage Power frequency	Installed memory		8GB		
2.5" Yes 2.6" Yes SSD	Memory slots		4		
2.5° Yes (addon bracket required) SSD Yes HDO Yes Number of HDD slots 8 PHYSICAL INTEXACES USB 2 USB 3.1 Expansion Port 1 1+ ports 1G RJ45 LN 1+ 1 ports PCP slots Size (DXWaH) 315mm x 275mm x 197mm Weight 56 kg System fan 2 AC Input power voltage 500V to 240V AC Power Supply 506W Operating temperature 506W Storage temperature 500V to 240V AC Operating temperature 506W Storage temperature 500W to 240V AC None of temperature 500W to 240V AC Storage temperature 500W to 240V AC None of temperature 500W to 300W to	Drive bays		8		
Maximum Capacity Supported	3.5"		Yes		
Number of HDD slots Yes Maximum Capacity Supported 128 TB PHYSICAL INTERCES USB Expansion Port 1 1 Fig. 12	2.5"		Yes (addon bracket required)		
Number of HDD slots 128 TB PHYSICAL INTERFACES USB 2 USB 3.1 Expansion Port 1 ER RJS LAN 1+1 ports PCIE slots 1 PCIE-3.0 x4 Projectal Specifications 315mm x 275mm x 197mm Size (DXWsH1) 315mm x 275mm x 197mm Weight 5.6 kg System fan 2 AC Input power voltage 100V to 240V AC Power frequency 50/66Hz, single phase Power Supply 500 Operating temperature 5°C to 35°C (40°F to 95°F) Storage temperature 5°C to 55°C (40°F to 140°F) Relative humidity 5% to 95% RH Maximum operating altitude 5% to 95% RH Maximum operating altitude 5% to 95% RH Apple Filing Protocol (AFP) Yes NES Yes (Preloaded Hand) WebDAV Yes WebDAV Yes SMB Yes SIGN Yes SIGN Yes REPORTING Block (ISCSI) </td <td colspan="2">SSD</td> <td>Yes</td>	SSD		Yes		
Maximum Capacity Supported PHYSICAL INTERFACES USB	HDD		Yes		
SPHYSICAL INTERFACES 1	Number of HDD slots		8		
USB 2 USB 3.1 Expansion Port 1 1G R/45 LAN 1+1 ports PCIe slots 7 PCIE 3.0 x4 Polysical Specifications 315mm x 275mm x 197mm Size (DWSH1) 315mm x 275mm x 197mm Weight 56 kg System fan 2 AC input power voltage 500/60 Hz, single phase Power Supply 500/60 Hz, single phase Power Supply 500/00 Hz, single phase Storage temperature 500/00 Hz, single phase	Maximum Capacity Supported		128 TB		
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PCIe slots 1 PCI-E 3.0 x4 Physical Specifications Size (DxWxH) 315mm x 275mm x 197mm Weight 5.6 kg System fan 2 AC input power voltage 100V to 240V AC Power Frequency 50/60Hz, single phase Power Supply 550W Operating temperature 5°C to 35°C (40°F to 95°F) Storage temperature 20°C to 60°C (-5°F to 140°F) Relative humidity 5000 m (16,400 ft) Maximum operating allitude 5°Stware specifications Software specifications SySTEM Operating system Yes (Preloaded NAS OS) SHARING NFS Yes WebDAV Yes SMB Yes CIFS Block (ISCS) Yes Block (ISCS) REPORTING Email alerts Mightly alerts containing information about health of disks	Expansion Port		1		
Physical Specifications	1G RJ45 LAN		1+1 ports		
Size (DXWxH) 315mm x 275mm x 197mm Weight 5.6 kg System fan 2 AC input power voltage 100V to 240V AC Power frequency 50/60Hz, single phase Power Supply 550W Operating temperature 5°C to 35°C (40°F to 95°F) Storage temperature 20°C to 60°C (-5°F to 140°F) Relative humidity 5% to 95% RH Maximum operating altitude 5,000 m (16,400 ft) SYSTEM Operating system Yes (Preloaded NAS OS) SHARING NPS Yes WebDAV Yes SMB Yes CIFS Block (ISCSI) Block (ISCSI) Yes REPORTING Email alerts Nightly alerts containing information about health of disks	PCIe slots		1 PCI-E 3.0 x4		
Size (DXWxH) 315mm x 275mm x 197mm Weight 5.6 kg System fan 2 AC input power voltage 100V to 240V AC Power frequency 50/60Hz, single phase Power Supply 550W Operating temperature 5°C to 35°C (40°F to 95°F) Storage temperature 20°C to 60°C (-5°F to 140°F) Relative humidity 5% to 95% RH Maximum operating altitude 5,000 m (16,400 ft) SYSTEM Operating system Yes (Preloaded NAS OS) SHARING NPS Yes WebDAV Yes SMB Yes CIFS Block (ISCSI) Block (ISCSI) Yes REPORTING Email alerts Nightly alerts containing information about health of disks	Physical Specifications				
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Power frequency Power Supply Operating temperature Storage temperature Storage temperature Relative humidity Maximum operating altitude Software specifications Software specifications SYSTEM Operating system Yes (Preloaded NAS OS) SHARING Apple Filing Protocol (AFP) Yes WebDAV Yes WebDAV Yes SMB CIFS Block (iSCSI) Yes REPORTING Single phase 50/60Hz,	System fan		2		
Power Supply Operating temperature Storage temperature Storage temperature Relative humidity Maximum operating altitude Software specifications Software specifications Software specifications Software specifications SYSTEM Operating system Yes (Preloaded NAS OS) SHARING Apple Filing Protocol (AFP) Yes Yes WebDAV Yes WebDAV Yes WebDAV Yes SMB CIFS Block (iSCSI) Yes REPORTING REPORTING Nightly alerts containing information about health of disks	AC input power voltage		100V to 240V AC		
Operating temperature Storage temperature Relative humidity Software specifications Software specifications SySTEM Operating system Yes (Preloaded NAS OS) SHARING Apple Filing Protocol (AFP) NFS Yes WebDAV Yes WebDAV Yes SMB Yes CIFS Block (iSCSI) Yes REPORTING Nightly alerts containing information about health of disks	Power frequency		50/60Hz, single phase		
Storage temperature Relative humidity Maximum operating altitude Software specifications Software specifications Software specifications SHARING Apple Filing Protocol (AFP) NFS Yes WebDAV Yes SMB Yes Yes SMB Yes REPORTING Nightly alerts containing information about health of disks	Power Supply		550W		
Relative humidity Maximum operating altitude Software specifications Software specifications SYSTEM Operating system Yes (Preloaded NAS OS) SHARING Apple Filing Protocol (AFP) NFS Yes WebDAV Yes WebDAV Yes SMB Yes CIFS Block (ISCSI) Yes REPORTING Mightly alerts containing information about health of disks	Operating temperature		5°C to 35°C (40°F to 95°F)		
Maximum operating altitude Software specifications SYSTEM Operating system Yes (Preloaded NAS OS) SHARING Apple Filing Protocol (AFP) Yes WebDAV Yes WebDAV Yes WebDAV Yes SMB Yes CIFS Block (ISCSI) Yes REPORTING Mightly alerts containing information about health of disks	Storage temperature		-20°C to 60°C (-5°F to 140°F)		
Software specifications SYSTEM Operating system Yes (Preloaded NAS OS) SHARING Apple Filing Protocol (AFP) Yes NFS Yes WebDAV Yes WebDAV SMB Yes CIFS Block (iSCSI) Yes REPORTING Nightly alerts containing information about health of disks	Relative humidity		5% to 95% RH		
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SHARING Apple Filing Protocol (AFP) NFS WebDAV Yes SMB CIFS Block (iSCSI) REPORTING Mightly alerts containing information about health of disks	SYSTEM				
Apple Filing Protocol (AFP) NFS Yes WebDAV Yes SMB CIFS Block (iSCSI) Yes REPORTING Nightly alerts containing information about health of disks	Operating system	Yes (Preloaded NAS OS)			
NFS Yes WebDAV Yes SMB Yes CIFS Block (iSCSI) Yes REPORTING Mightly alerts containing information about health of disks		SHARI	NG		
WebDAV Yes SMB Yes CIFS Block (iSCSI) Yes REPORTING Nightly alerts containing information about health of disks	Apple Filing Protocol (AFP)	Yes			
SMB CIFS Block (iSCSI) REPORTING Mightly alerts containing information about health of disks	NFS	Yes			
CIFS Block (iSCSI) Yes REPORTING Nightly alerts containing information about health of disks	WebDAV	Yes			
Plock (iSCSI) Yes REPORTING Mightly alerts containing information about health of disks	SMB	Yes			
REPORTING Mightly alerts containing information about health of disks	CIFS				
Email alerts Nightly alerts containing information about health of disks	Block (iSCSI)	Yes			
	REPORTING				
CPU usage reporting Yes (NAS health reports)	Email alerts	Nightly alerts containing information about health of disks			
	CPU usage reporting	Yes (NAS hea	Yes (NAS health reports)		

Send alerts to	1. AWS-SNS 2. E-mail 3. InfiuxDB 4. Mattermost 5. OpsGenie 6. PagerDuty 7. Slack 8. SNMP Trap 9. VictorOps
	REPORTS AVAILABLE FOR
СРИ	Yes
Disk	Yes
Memory	Yes
Network	Yes
Partition	Yes
System	Yes
Target	Yes
UPS	Yes
NFS	Yes
ZFS	Yes
	WEB UI
Built in themes	Yes
Custom themes	Yes
	ADD ON FEATURES
Plugins available for	Create real time local cloud backup Madia contact
	2. Media center 3. Antivirus 4. Bittorrent client 5. Minecraft server
	Antivirus Bittorrent client
Snapshots	3. Antivirus 4. Bittorrent client 5. Minecraft server
Snapshots Replication	3. Antivirus 4. Bittorrent client 5. Minecraft server DATA MANAGEMENT
	3. Antivirus 4. Bittorrent client 5. Minecraft server DATA MANAGEMENT Yes
Replication	3. Antivirus 4. Bittorrent client 5. Minecraft server DATA MANAGEMENT Yes Yes
Replication Rollback	3. Antivirus 4. Bittorrent client 5. Minecraft server DATA MANAGEMENT Yes Yes Yes
Replication Rollback Clones	3. Antivirus 4. Bittorrent client 5. Minecraft server DATA MANAGEMENT Yes Yes Yes Yes
Replication Rollback Clones Encryption	3. Antivirus 4. Bittorrent client 5. Minecraft server DATA MANAGEMENT Yes Yes Yes Yes Yes Yes
Replication Rollback Clones Encryption Mirroring	3. Antivirus 4. Bittorrent client 5. Minecraft server DATA MANAGEMENT Yes Yes Yes Yes Yes Yes Yes Ye
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Replication Rollback Clones Encryption Mirroring RAID IPMI WebUI REST API SSH Telnet	3. Antivirus 4. Bittorrent client 5. Minecraft server DATA MANAGEMENT Yes Yes Yes Yes Yes Yes Yes Ye
Replication Rollback Clones Encryption Mirroring RAID IPMI WebUI REST API SSH Telnet SNMP	3. Antivirus 4. Bittorrent client 5. Minecraft server DATA MANAGEMENT Yes Yes Yes Yes Yes Yes Yes Ye
Replication Rollback Clones Encryption Mirroring RAID IPMI WebUI REST API SSH Telnet SNMP NIS	3. Antivirus 4. Bittorrent client 5. Minecraft server DATA MANAGEMENT Yes Yes Yes Yes Yes Yes Yes Ye

Virtualization	Yes		
VIItualization	SECURITY		
Firewall	Yes		
Encrypted shared folder	Yes		
SMB encryption	Yes		
FTP over SSL/TLS	Yes		
SFTP	Yes		
Rsync over SSH	Yes		
Login auto block	Yes		
Let's Encrypt support	Yes		
HTTPS	Yes		
	FTP SERVER		
Bandwidth control for TCP connections	Yes		
Custom FTP passive port range	Yes		
Anonymous FTP	Yes		
FTP SSL/TLS and SFTP protocol	Yes		
	BACKUP TOOLS		
Windows Backup support	Yes		
Apple Time Machine support	Yes		
Support for rsync	Yes		
TrueOS Life Preserver	Yes		
Asigra Backup (Plugin)	Yes		
Tarsnap (Plugin)	Yes		
BRU Server (Plugin)	Yes		
Syncthing (Plugin)	Yes		
BackupPC (Plugin)	Yes		
CLOUD SYNC			
One or two-way synchronization	Yes		
Amazon Drive	Yes		
Amazon S3-compatible storage	Yes		
Вох	Yes		
Dropbox	Yes		
Google Cloud Storage	Yes		
Google Croud Storage Google Drive	Yes		
Microsoft OneDrive	Yes		
OpenStack Swift-compatible storage	Yes		
WebDAV servers	Yes		
WEDDAY SELVEIS	ACCESS		
Supports creating user accounts			
Supports creating user accounts	Yes		
Supports creating user groups	Yes		
Supports assigning permissions to groups	Yes		
Supports assigning permissions to users	Yes		
(User access rights)			
User/Folder Quota	Yes		
See, and quality			
Ω ΔΔDΩNΔ Communication Pvt Ltd. ΔII rights reserved			

	CLOUD SYNC
Compatible cloud services	1. Amazon S3 2. Backblaze B2 3. Box 4. Dropbox 5. FTP 6. Google Cloud Storage 7. Google Drive 8. HTTP 9. hubiC 10. Mega 11. Microsoft Azure Blob Storage 12. Microsoft OneDrive 13. pCloud 14. SFTP 15. WebDAV 16. Yandex
Supports SSH connections	Yes
	AUTOMATION
Supports CRON jobs	Yes
Init and shutdown scripts	Yes
Rsync scheduled tasks	Yes
Rsync Module mode	Yes
Rsyc over SSH	Yes
Scheduling S.M.A.R.T tests	Yes
Periodic snapshots	Yes
Snapshot autoremoval	Yes
Periodic replication	Yes
Scrub tasks	Yes
Cloud sync task	Yes
Setting Resilver priority	Yes
Background services	Yes
AFP configuration service	Yes
Dynamic DNS service	Yes
FTP access (incoming connections)	Yes
Anonymous FTP	Yes
iSCSI service	Yes
LLDP service	Yes
NFS service	Yes
Rsync service	Yes
S3 configuration service	Yes
S.M.A.R.T monitoring service	Yes
SMB service	Yes
SNMP service	Yes
SSH (incoming connections)	Yes
TFTP service	Yes
Network UPS service	Yes
WebDAV access service	Yes

	RAID LEVELS / VOLUME LAYOUTS		
Stripe	Supported with at least one disk		
Mirror	Supported with at least two disk		
Z1	Supported with at least three disk, allows for one disk to fail		
Z2	Supported with at least four disk, allows for two disks to fail		
Z3	Supported with at least five disk, allows for three disks to fail		
Log device	Supported with at least one dedicated device		
Cache device	Supported with at least one dedicated device		
	DATA REDUCTION		
Thin Provisioning	Yes		
Compression	Yes		
Clones	Yes		
Deduplication	Yes		
STORAGE MANAGEMENT			
Maximum internal volumes	512		
Maximum iSCSI targets	32		
Maximum iSCSI LUNs	256		
iscsi lun	Clone/snapshot support		
	FILE SHARING CAPABILITY		
Recommended local user accounts:	4096 (Can be increased without additional license)		
Recommended local groups:	512		
Recommended shared folders:	512		
Recommended concurrent SMB/NFS/AFP/FTP connections:	1500		
COMPATIBLE OS AND BROWSER			
UNIX	Yes		
Linux	Yes		
Windows 7 Desktop and above	Yes		
Windows Server 2008 and above	Yes		
FreeBSD	Yes		
MacOS	Yes		
Supported browser	Mozilla Firefox, Google Chrome, Microsoft Internet Explorer, Apple Safari		
	SURVEILLANCE STATION		
Maximum IP cameras:	No Limit. Maximum depends on hardware configuration, camera resolution, number streams, and stream bandwidth.		
	VIRTUAL MACHINE MANAGER		
Run various virtual machines on NAS, includin Windows, Linux, or Virtual DSM	g Yes		
	HIGH AVAILABILITY MANAGER		
Support for snapshots	Yes		
	HIGH PERFORMANCE		
Intelligent read and write caches	Yes, (HDD supported, recommended SSD)		

^{*} Specifications above are subject to change without notice. Actual product specifications may vary. Raw capacity estimated when used with 16TB disks.



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