Synology®

DiskStation DS916+

Safely centralize all your digital assets with Synology DiskStation DS916+. Powered by an Intel® Pentium® N3710 quad-core processor with AES-NI hardware encryption engine, DS916+ provides outstanding performance and data encryption acceleration along with real-time transcoding of 4K Ultra HD source contents for small and medium-sized businesses and IT enthusiasts. DS916+ also comes with 2GB or 8GB memory options, being more flexible for virtualization applications. Synology DS916+ is backed with Synology's 3-year limited warranty.

Highlights

- **Quad-core 4-bay NAS optimized for intensive tasks and encryption**
- **Scalable storage up to 9 drives with DX513**
- **Comes with 2 RAM options: 2GB and 8GB**
- **Single H.264 4K or triple Full HD online transcoding**
- **Advanced Btrfs file system offering 65000 system-wise snapshots and 1024 snapshots per shared folder**
- **Encryption performance at over 225.83 MB/s reading and 209.35 MB/s writing (2GB RAM) / 225.86MB/s reading and 212.67 MB/s writing (8GB RAM)[1] by AES-NI hardware encryption engine**
- **Ideal MailPlus solution comes with 5 free email accounts**
- **Brightness-adjustable front LED with schedule control**

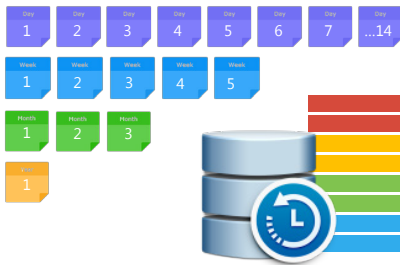## Satisfy Your Need for Both Performance and Data Security

Synology DS916+ is a full-featured 4-drive-bay network attached storage solution specifically designed for small and medium-sized business users and IT enthusiasts who care about high performance throughput and safety for data sharing and backup. DS916+ equips with an **Intel® Pentium® N3710 quad-core processor** with **AES-NI hardware encryption engine** and **2GB** or **8GB** memory options, providing astonishing encryption acceleration at over **225.83 MB/s reading** and **209.35 MB/s writing** (2GB RAM) / **225.86 MB/s reading** and **212.67 MB/s writing** (8GB RAM) under a RAID 5 configuration in a Windows® environment with Link Aggregation enabled[1].

With scalable drive management of up to 9 drives with **Synology Expansion Unit DX513**[2] and real-time **1-channel H.264 4K Ultra HD** or **3-channel Full HD**[3] video transcoding support, DS916+ is also ideal for sharing and storing ultra-high definition media contents.

Btrfs: Next Generation Storage Efficiency

DS916+ introduces the **Btrfs file system**, bringing the most advanced storage technologies to meet the management needs of modern businesses:

- **Built-in data integrity check** detects data and file system corruption with data and meta-data checksums and improve overall stability.
- **Flexible Shared Folder/User Quota System** provides comprehensive quota control on all user accounts and shared folders.
- **Advanced snapshot technology** with customizable backup schedule allows up to **1024 copies** of shared folder backups in a minimum **5-minute interval** without occupying huge storage capacity and system resources.
- **File or folder level data restoration** brings huge convenience and saves time for users who wish to restore only a specific single file or folder.
- **Cloud Station with file versioning** reduces down to half of storage consumption when compared with the Ext4 file system.

Next Generation Storage Efficiency

The Btrfs file system brings storage management to the next level by providing more efficient storage utilization, scheduled shared folder snapshot, and file/folder-level data restoration.

Flexible Scalability

DS916+ can expand its capacity on-the-fly and enlarge volumes across its expansion unit for storage or backup.

Comprehensive Business Applications

Powered by the innovative **Synology DiskStation Manager** (DSM), DS916+ comes fully-equipped with applications and features designed specifically for SMB users:

- Easy integration with existing business network environments through **Windows® AD** and **LDAP** directory services without recreating user accounts.
- **Windows ACL** support provides fine-grained access control and efficient privilege settings, allowing DS916+ to fit seamlessly into current infrastructure.
- Internet file access is simplified by the encrypted FTP server and the web-based file explorer, **Synology File Station**. HTTPS, firewall, and IP auto-block support ensure file sharing over the Internet is protected with a high level of security.
- **Synology Cloud Station** allows users to sync files among multiple devices, including Windows PC, Mac, Linux, iOS and Android tablets or smart phones, effortlessly keeping everything up-to-date.

Virtualization Ready

With iSCSI support in DSM, DS916+ provides seamless storage solutions for virtualization environments, including VMware®, Citrix®, and Hyper-V®. With VMware vSphere 5 and VAAI integration, DS916+ helps offload specific storage operations and optimizes computation power for unparalleled performance and efficiency in VMware environments. It is the ideal alternative to SAN solutions for businesses. Fast and cost-effective, iSCSI allows SMB users to consolidate storage into data center storage arrays while providing hosts with the illusion of locally-attached disks.

Easy Backup Solutions

With block-level incremental backup and cross-version deduplication, **Synology Hyper Backup** provides multi-version backup with optimized storage utilization and allows multiple backup destinations to local shared folders, external hard drives, network shared folders, rsync server, and public cloud services. Synology **High Availability Manager** ensures seamless transition between clustered servers in the event of server failure with minimal impact to applications to decrease the risk of unexpected interruptions and costly downtime.

24/7 Security Solution

Synology **Surveillance Station** offers a centralized interface to manage IP cameras deployed in your working environment, allowing users traveling miles away to safeguard the environment by watching live views, recording events, and taking snapshots with a computer or mobile device. DS916+ is an ideal surveillance solution as it is capable of hosting up to **40 IP cameras** (30 FPS at 720p). In addition to its intuitive setup and hassle-free interface, Surveillance Station features an optimized live view experience with on-screen operations, smart analytic tools like motion detection, and an alert system that sends instant notification through **DS cam**, SMS, and e-mail.

Energy Efficient and Easy Management Design

Synology DS916+ is designed and developed with energy efficiency in mind. Compared with the average storage server counterparts, DS916+ consumes only 30W in regular operation. The support of Wake on LAN/WAN and power schedule further reduces power consumption and operation cost. HDD hibernation can be configured to take effect automatically when the system has been inactive for a specified period of time. This not only saves energy but also extends the lifespan of the hard disks.

All Synology products are produced with RoHS compliant parts and packed with recyclable packing materials. Synology acknowledges the responsibility as a global citizen to continually work to reduce the environmental impact of every product produced.

Connections & Buttons

1	LED indicator	2	USB 3.0 port	3	Power button	4	Drive tray cover
5	System fan	6	Kensington Security Slot	7	Reset button	8	Gigabit (RJ-45) LAN port
9	Power port	10	eSATA port	11	USB 3.0 port		

Technical Specifications

Hardware

CPU	Intel Pentium N3710 quad-core 1.6GHz, burst up to 2.56GHz
Hardware encryption engine	Yes (AES-NI)
Floating point unit	Yes
Hardware transcoding engine	Supported codec: H.264 (AVC), MPEG-2 and VC-1; maximum resolution: 4K (4096 x 2160); maximum frame rate per second (FPS): 30
RAM size	DDR3 2GB / 8GB
Compatible drive type	3.5"/2.5" SATA III/II x 4 (hard drives not included)
Maximum internal raw capacity	32TB (8TB HDD x 4) (actual capacity dependent on volume types)
External ports	USB 3.0 x 3, eSATA x 1
Size (HxWxD)	165 mm x 203 mm x 233.2 mm
Weight	2.04 Kg
LAN	Gigabit (RJ-45) x 2
Wake on LAN/WAN	Yes
Wireless support	Yes (wireless dongles not included)
Scheduled power on/off	Yes
AC input power voltage	100V to 240V AC
Power frequency	50Hz to 60Hz, single phase
Operating temperature	5°C to 40°C (40°F to 104°F)
Storage temperature	-20°C to 60°C (-5°F to 140°F)
Relative humidity	5% to 95% RH

General

Networking protocols	CIFS, AFP, NFS, FTP, WebDAV, CalDAV, iSCSI, Telnet, SSH, SNMP, VPN (PPTP, OpenVPN™ , L2TP)
File system	Internal: Btrfs, ext4 External: Btrfs, ext4, ext3, FAT, NTFS, HFS+
Storage management	Maximum single volume size: 108TB, Maximum internal volume: 512, Maximum iSCSI Target: 32, Maximum iSCSI LUN: 256, iSCSI LUN clone/snapshot support; SSD read/write cache support
Supported RAID type	Synology Hybrid RAID (SHR), Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 10
File sharing capability	Maximum user account: 2048, Maximum group: 256, Maximum shared folder: 512, Maximum concurrent CIFS/AFP/FTP/File Station connection: 512 (2GB RAM) / 2048 (8GB RAM)
Privilege	Windows Access Control List (ACL)
Directory service	Windows AD Integration: Domain Users login via Samba (CIFS)/AFP/FTP/File Station, LDAP integration
Security	FTP over SSL/TLS, IP Auto-Block, Firewall, Encrypted Network Backup over Rsync, HTTPS Connection

Utilities	Synology Web Assistant, Cloud Station Drive, Cloud Station Backup, Cloud Sync Decryption Tool, Evidence Integrity Authenticator, Photo Station Uploader, Snapshot Manager for VMware, Snapshot Manager for Windows, NFS Plug-in for VMware VAAI
Supported clients	Windows 7 onwards and Mac OS X® 10.10 onwards
Supported browsers	Chrome™, Firefox®, Internet Explorer® 9 onwards, Safari® 8 onwards, Safari (iOS® 7 onwards on iPad®), Chrome (Android 4.0 onwards on tablets)
Language	English, Deutsch, Français, Italiano, Español, Dansk, Norsk, Svensk, Nederlands, Русский, Polski, Magyar, Português do Brasil, Português Europeu, Türkçe, Český, 日本語, 한국어, 繁體中文, 简体中文

Applications

File Station	Virtual drive, remote folder, Windows ACL editor, compress/extract archived files, bandwidth control for specific users or groups, create sharing links, transfer logs
Backup solutions	Network backup; local backup; desktop backup; configuration backup; OS X Time Machine; backup data to public cloud; shared folder sync - maximum task number: 8
FTP Server	Bandwidth control for TCP connections, custom FTP passive port range, anonymous FTP, FTP SSL/TLS and SFTP protocols, boot over the network with TFTP and PXE support, transfer logs
High Availability Manager	Combines two DS916+ into one high-availability cluster
Printer Server	Maximum printer: 2, printing protocols: LPR, CIFS, IPP, iOS printing, Google Cloud Print™, multi functional print server (MFP functions are for Windows PC only)
Security Advisor	Malware detection/removal, user account/password, network, system-related security scan
iOS/Android™ applications	DS cloud, DS file, DS finder, DS cam, DS note, DS audio, DS download, DS photo, DS video
Windows Phone® applications	DS file, DS finder, DS audio, DS download, DS photo, DS video

Add-on Packages

Antivirus Essential	Full system scan, scheduled scan, white list customization, virus definition auto update
Cloud Station Server	Maximum concurrent file transfers: 512 (2GB RAM) / 2048 (8GB RAM), retain historical and deleted file versions
Cloud Sync	One or two-way synchronization with public cloud storage providers including Amazon Cloud Drive, Amazon S3-compatible storage, Baiduyun, Box, Dropbox, Google Cloud Storage, Google Drive, hubiC, Megafon Disk, Microsoft OneDrive, OpenStack Swift-compatible storage, WebDAV servers, Yandex Disk
DLNA/UPnP® Media Server	DLNA certified, PS3®/PS4®/Xbox 360®/Xbox One® support
Download Station	Supported download protocols: BT/HTTP/FTP/NZB/eMule; Maximum concurrent download task: 80
Log Center	SSL connection, log rotation: 6 months, 1 year, 2 years, 3 years, email notification
MailPlus	Intuitive webmail interface for MailPlus Server; customizable mail labels, filters and user interface
MailPlus Server	Secure, reliable, and private mail server solution with High-availability, load balancing, security and filtering design (Including free MailPlus licenses for 5 mail accounts. Procurement of additional licenses is required.)
Note Station	Rich-text note organization with versioning, encryption, sharing, media embedding and attachments
Storage Analyzer	Volume and quota usage, total size of files, volume usage and trends based on past usage, size of shared folders, largest/most/least frequently modified files
Surveillance Station	Maximum IP camera: 40 (total of 1200 FPS at 720p, H.264) (Including two free camera licenses. Procurement of additional licenses is required.)
VPN Server	Maximum connections: 20; supported VPN protocols: PPTP, OpenVPN™, L2TP
Web Station	Virtual host (up to 30 websites), PHP/MariaDB®, 3rd-party applications support
Other packages	Photo Station, Audio Station, iTunes® Server, 3rd-party packages

Environment and Packaging

Environment	RoHS Compliant
Package content	DS916+ main unit, Welcome note, accessory pack, AC power adapter, RJ-45 LAN cable x 2
Optional accessories	Camera License Pack, VS360HD, Synology Expansion Unit DX513/DX213
Warranty	3 years

*Model specifications are subject to change without notice. Please refer to www.synology.com for the latest information.

1. Performance figures could vary on different environments.
2. DS916+ supports one Synology Expansion Unit DX513/DX213, sold separately.
3. DS916+ can transcode 4K video to 1080p or lower. The concurrent channels of Full HD video transcoding may vary depending on the video codec, resolution, bitrate and FPS.

SYNOLOGY INC.

Synology is dedicated to taking full advantage of the latest technologies to bring businesses and home users reliable and affordable ways to centralize data storage, simplify data backup, share and sync files across different platforms, and access data on-the-go. Synology aims to deliver products with forward-thinking features and the best in class customer services.

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