ComX Computers
Product Specification Sheet

SYN-DS916+2G

Synology DiskStation DS916+ 4-Bay 2.4GHz Quad Core Network Attached Drive

Product Overview

Synology DiskStation DS916+ 4-Bay, SATA3 6.0Gbps, 2.4GHz Quad Core CPU, 2GB DDR3 RAM, 2x Gigabit, 1x USB2.0, 2x USB3.0, 1x eSATA, Hotswap, 72.0TB Max



Specifications

Overview:

Meet the ambitious DS916+ designed to satisfy professional NAS users' needs. With a powerful quad-core CPU, AES-NI hardware encryption engine, scalability up to nine drives, and 2GB or 8GB memory options, DS916+ brings better support for multitasking, and increases business dynamics.

Features:

Flexible scalability answering growing needs in storage capacity
To help businesses cope with a rapidly growing amount of data effortlessly, DS916+ supports robust scalability up to 9 drives with DX513 expansion unit, combining drives into one large volume. Your business can start with a lower upfront cost and scale up storage capacity as requirements grow while investing less time on storage management.

Quad-core CPU and AES-NI hardware encryption engine bringing high performance
Equipped with the powerful Intel Pentium quad-core CPU and AES-NI hardware encryption engine, DS916+ provides excellent encrypted reading speed over 225 MB/s and writing over 209 MB/s, enabling compelling performance and a more productive user experience.

2GB and 8GB memory options
DS916+ offers 2GB and 8GB memory options for users with different needs. While users of 2GB model can experience many of the powerful features of DSM for a fair price, the 8GB model is created especially for startups or small and medium size offices looking for robust efficiency-oriented solutions, such as more Docker DSM resources, and higher number of concurrent users on Cloud Station, CIFS/AFP/FTP, and File Station connections.

4K Ultra HD video transcoding
Powered by a hardware-accelerated transcoding engine, DS916+ allows you to transcode and stream H.264 4K / 1080p videos to high-definition TV, digital media players, mobile handsets, and computers in the required format, making it easy to watch videos without having to install a 3rd party player. 4K transcoding is available only through Synology's Video Station, DS

video, Media Server.

Award winning OS - DiskStation Manager
Synology DiskStation Manager (DSM) is a sleek, browser-based operating system running on every DiskStation and RackStation, which makes managing your Synology NAS a breeze. Featuring an intuitive user interface, DSM makes accessing and sharing your data smarter and simpler. Synology's Package Center lets you download and install useful add-on packages designed specifically for individual or business needs, meaning you can enjoy more entertainment in your life or better productivity at work.

Your files anywhere with cloud service
DS916+ brings you comprehensive cloud service. Cloud Station lets you sync files among DiskStations and multiple devices, including Windows PC, Mac, Linux, iOS, Android, as well as Windows mobile devices, whereas 2-way sync allows file synchronization among different DiskStations. With Cloud Sync, you can even sync your DiskStation with Amazon Cloud Drive, Google Drive, Microsoft OneDrive, Dropbox, Box, Baidu Cloud, and many more - establish your hybrid cloud to enjoy more storage flexibility and prevent data loss.

The most compatible sharing
Enjoy seamless files sharing across Windows®, Mac®, and Linux® platforms as DS916+ offers comprehensive network protocol support including FTP, SMB2, AFP, NFS and WebDAV. With Windows AD and LDAP integration, DS916+ can fit effortlessly into any existing network environment - there is no need for IT administrators to maintain two sets of credentials. You also won't worry about missing files with the Recycle Bin feature which is supported on AFP, CIFS, File Station, and WebDAV. All files deleted in a shared folder will be automatically moved into the Recycle Bin.

Fit into business environments easily
With the support of Windows AD, LDAP, and Domain Trust, DS916+ enables seamless account integration. The User Home feature can automatically create a "home" folder for every user account to minimize the administrator's effort in repeatedly creating "home" folders for all accounts. Windows ACL support on DS916+ allows IT administrators to fine tune access controls and set up privileges to files and folders on DS916+ through the familiar Windows user interface. With compatibility for major protocols, DS916+ can eliminate server configuration overhead and enhance IT administrators' efficiency.

Home surveillance, accessible for all
With the Surveillance Station add-on package and two free IP camera and device licenses, DS916+ serves as your home surveillance hub. Simply connect multiple IP cameras or I/O modules to the home network, pair them with DS916+, and then easily view live surveillance feeds, record videos, or enjoy other advanced features like motion detection or push notifications. Support for thousands of IP cameras makes it easy to find compatible models and brands. Safeguard your home, without breaking the bank.

Backup data in multiple ways
Synology DS916+ can serve as a centralized backup target. Whether you are a Windows or Mac user, you can back up everything on your computer directly to Synology NAS using Cloud Station Backup. Whenever you modify a file, the changes are backed up to DS916+ automatically. Mac users also enjoy native Apple® Time Machine support. You can also back up data from your DS916+ to another DiskStation, rsync servers, external drives, or even Amazon® S3, Glacier cloud service, Microsoft Azure, SFR, and hicloud. Synology Hyper Backup allows you to schedule backup tasks and restore the server to any particular point in time, while minimizing storage consumption and processing time by saving only the specific data block that has been changed between versions.

Next-generation data protection and integrity
When dealing with large-scale data storage, businesses require a solution that offers reliable backup and prevents file corruption. With support for the next-generation Btrfs file system, DS916+ ensures information is stored with a high level of data integrity, while providing flexible and efficient data protection tools.

Fast and efficient snapshots

Snapshots preserve the history of a shared folder allowing you to save up to 1024 backup copies for point-in-time recovery. Snapshots can be automatically captured up to every 5 minutes, without noticeably impacting system performance.

Metadata mirroring and survivability
Btrfs file system stores two copies of critical metadata on a volume, improving the availability and ensuring the integrity of your file system.

Corruption detection and correction
Btrfs generates checksums for data and metadata, and then verifies the checksums during each read process to ensure the integrity of the filesystem and files. If the file system discovers a mismatch, metadata will be repaired to keep file system consistent. In the meantime, corrupted files will be reported and logged.

Customizable quotas for shared folders
With Btrfs, you can specify a storage limit for each shared folder, making it possible to precisely control space consumption when multiple teams or departments save files on the same Synology NAS server.

Ultimate file center
File Station is a fast and secure feature for sharing and managing your files stored on DS916+. Just drag-n-drop and upload data from Mac or PC. Advanced filters make it easy to search for documents, photos, or videos. With built-in FTP or email clients, DS916+ lets you organize and share files through an advanced web application effortlessly. You can even share files and folders with others by simply sending a link. Files can be reached on mobile devices via the companion mobile app DS file. HTTPS, SSL/TLS encryption, and link expiry dates also ensure file sharing over the Internet is highly secure.

Seamless storage solution for virtualization environments
DS916+ provides seamless storage solutions for virtualization environments, including VMware, Citrix, and Microsoft Hyper-V. With VMware vSphere® & VAAI integration, DS916+ helps offload specific storage operations and optimizes computation power in VMware environments. Windows ODX support speeds up data manipulation as the data transfer is offloaded. iSCSI also lets SMB users consolidate storage into data center storage arrays while providing hosts with the illusion of locally-attached disks.

Secure your data
DS916+ offers advanced security measures to protect you from potential security holes. Security Advisor analyzes system settings, password strength, network preferences and removes any possible malware. AppArmor blocks malicious programs from accessing unauthorized system resources. You can also customize the trust level in Package Center to avoid installing packages from untrusted sources, safeguarding your NAS from unknown or tampered files. In addition, DS916+ provides other security add-ons, such as AES encryption, 2-Step verification, IP block & allow list, Antivirus packages, firewall, and DoS attack prevention.

Stream content to your TV
DS916+ is highly compatible with other devices, letting you manage and enjoy digital content with the devices you already have: computers, mobile devices, TVs, DLNA devices, and stereos. Synology offers the latest support for TV streaming, including Samsung TV, Roku players, Apple TV, and Google Chromecast, meaning you can stream digital content stored on DS916+ to your widescreen TV effortlessly.

Eco-friendly NAS server
All Synology NAS is designed with energy efficiency in mind. DS916+ only consumes 13W in HDD Hibernation and 30W in access*. With special fan and the smart airflow design, the DS916+ keeps the system running cool 24/7, while its noise dampening design makes it quieter than PC counterparts. Synology acknowledges the responsibility as a global citizen, so all Synology products are produced with RoHS compliant parts and packed with recyclable packing materials.

Specifications:

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Specifications	
Product Code	SYN-DS916+2G
CPU	
CPU Model	Intel Pentium N3710
CPU Architecture	64-bit
CPU Frequency	Quad Core 1.6 burst up to 2.56 GHz
Floating Point	Yes
Hardware Encryption Engine (AES-NI)	Yes
Hardware Transcoding Engine	H.264 (AVC), H.265 (HEVC), MPEG-2 and VC-1; maximum resolution: 4K (4096 x 2160); maximum frame rate per second (FPS): 30
Memory	
System Memory	2 GB DDR3
Storage	
Drive Bay(s)	4
Maximum Drive Bays with Expansion Unit	9
Compatible Drive Type	3.5" SATA III / SATA II HDD
	2.5" SATA III / SATA II HDD
	2.5" SATA III / SATA II SSD
Maximum Internal Raw Capacity	40 TB (10 TB HDD x 4) (Capacity may vary by RAID types)
Maximum Raw Capacity with Expansion Units	72 TB (8 TB HDD x 9) (Capacity may vary by RAID types)
Maximum Single Volume Size	108 TB
Hot Swappable Drive	Yes
External Ports	
USB 3.0 Port	3
eSATA Port	1
File System	
Internal Drives	Btrfs
	EXT4

External Drives	Btrfs
	EXT4
	EXT3
	FAT
	NTFS
	HFS+
Appearance	
Size (Height x Width x Depth)	165 mm x 203 mm x 233.2 mm
Weight	2.04 kg
Others	
RJ-45 1GbE LAN Port	2 (with Link Aggregation / Failover support)
Wake on LAN/WAN	Yes
System Fan	92 mm x 92 mm x 2 pcs
Fan Speed Mode	Cool Mode
	Quiet Mode
Wireless Support (dongle)	Yes
Brightness adjustable front LED indicators	Yes
Power Recovery	Yes
Noise Level	19.4 dB(A)
Scheduled Power On/Off	Yes
Power Supply Unit / Adapter	100W
AC Input Power Voltage	100V to 240V AC
Power Frequency	50/60 Hz, Single Phase
Power Consumption	30 W (Access)
	13 W (HDD Hibernation)
British Thermal Unit	102.4 BTU/hr (Access)
	44.4 BTU/hr (HDD Hibernation)
Environment Temperature	
Operating Temperature	5 to 40 Degrees Celcius
Storage Temperature	20 to 60 Degrees Celcius
Relative Humidity	5% to 95% RH
Certification	FCC Class B
	CE Class B
	BSMI Class B
Storage Management	
Maximum Internal Volume Number	512

Maximum iSCSI Target Number	32
Maximum iSCSI LUN	256
iSCSI LUN Clone/Snapshot, Windows ODX	Yes
Supported RAID Type	Synology Hybrid RAID
	Basic
	JBOD
	RAID 0
	RAID 1
	RAID 5
	RAID 6
	RAID 10
RAID Migration	Basic to RAID 1
	Basic to RAID 5
	RAID 1 to RAID 5
	RAID 5 to RAID 6
Volume Expansion with Larger HDDs	Synology Hybrid RAID
	RAID 1
	RAID 5
	RAID 6
Volume Expansion by Adding a HDD	Synology Hybrid RAID
	RAID 5
	RAID 6
	JBOD
Global Hot Spare Supported RAID Type	Synology Hybrid RAID
	RAID 1
	RAID 5
	RAID 6
	RAID 10
SSD Support	
SSD Read/Write Cache	Yes
File Sharing Capacity	
Maximum User Accounts	2048
Maximum Groups	256
Maximum Shared Folder	512
Maximum Shared Folder Sync Tasks	8

Maximum Concurrent CIFS/AFP/FTP Connections	512 (2GB RAM) / 2048 (8GB RAM)
Windows Access Control List (ACL) Integration	Yes
NFS Kerberos Authentication	Yes
High Availability Manager	Yes
Log Center	Yes
Syslog Events per Second	800
Virtualization	
VMware vSphere 5 with VAAI	Yes
Windows Server 2012	Yes
Windows Server 2012 R2	Yes
Citrix Ready	Yes
Add-on Packages	
Antivirus by McAfee (Trial)	Yes
Central Management System	Yes
Cloud Station Server	Yes
Maximum Concurrent File Transfers	512 (2GB RAM) / 2000 (8GB RAM)
Docker DSM	Yes
Maximum Docker DSM Number (Licenses required)	2 (2GB RAM) / 10 (8GB RAM) (including 1 Free License)
Document Viewer	Yes
Download Station	Yes
Maximum Concurrent Download Tasks	80
HiDrive Backup	Yes
MailPlus / MailPlus Server	Yes
Free Email Accounts	
Recommended MailPlus Client Number	Up to 100 (8GB RAM) / 50 (2GB RAM)
Maximum Server Performance	87,300 (8GB RAM) / 50,400 (2GB RAM) emails per day, approx. 2.7 GB (8GB RAM) / 1.5GB (2GB RAM)
Media Server	Yes
DLNA Certification	Yes
Snapshot Replication	Yes
Maximum Snapshots per Shared Folder	1024
Maximum Snapshots of all Shared Folder	65536

SpreadSheet	Yes
Maximum Simultaneous Editing Users	125
Surveillance Station	Yes
Maximum IP cam (Licenses required)	40 (including 2 Free License)
Total FPS (H.264)	1200 (2GB RAM) / 1200 (8GB RAM) FPS @ 720p (1280x720)
	800 (2GB RAM) / 1000 (8GB RAM) FPS @ 1080p (1920x1080)
	300 (2GB RAM) / 400 (8GB RAM) FPS @ 3M (2048x1536)
	250 (2GB RAM) / 250 (8GB RAM) FPS @ 5M (2591x1944)
Total FPS (MJPEG)	500 (2GB RAM) / 800 (8GB RAM) FPS @ 720p (1280x720)
	150 (2GB RAM) / 300 (8GB RAM) FPS @ 1080p (1920x1080)
	100 (2GB RAM) / 160 (8GB RAM) FPS @ 3M (2048x1536)
	72 (2GB RAM) / 120 (8GB RAM) FPS @ 5M (2591x1944)
Video Station	Yes
Video Transcoding	4K Group 1
Maximum Transcoding Channel Number	1 channel, 30 FPS @ 4K (4096 x 2160), H.264 (AVC)/H.265 (HEVC) or 3 channel, 30 FPS @ 1080p (1920x1080), H.264 (AVC)/H.265 (HEVC)/MPEG-2/VC-1
VPN Server	Yes
Maximum Connections	20
Environment & Packaging	
Environment	RoHS Compliant
Packaging Content	Main Unit X 1
	Welcome Note X 1
	Accessory Pack X 1
	AC Power Adapter X 1
	AC Power Cord X 1
	RJ-45 LAN Cable X 2
Optional Accessories	Camera License Pack
	Expansion Unit: DX213 X 1
	Expansion Unit: DX513 X 1
	VS360HD

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/SYN-DS916-2G-Synology-DiskStation-DS916-4-Bay-2-4GHz-Quad-Core-Network-Attached-Drive-p-157007.php

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