Synology



Synology DiskStation DS1812+

High Performance NAS Server Scales up to 18 Drives for SMB Users

Synology DiskStation DS1812+ offers a high-performance, scalable, and full-featured network attached storage solution that meets the needs of small and medium-sized businesses that require an efficient way to centralize data protection, simplify data management, and rapidly scale storage capacity with minimal time spent on setup and management. The Synology DS1812+ is backed with Synology's 3-year limited warranty.

Highlights

- 194.4 MB/sec Writing, 192.3 MB/sec Reading¹
- Scaling up to 18 Drives with Synology DX510
- Featuring SuperSpeed USB 3.0
- Expandable RAM Module (Up to 3GB)
- 2 LAN with Link Aggregation Support
- CPU Passive cooling Technology & System Fan Redundancy
- VMware®, Citrix®, Microsoft® Hyper-V® Compliance
- Running on Synology DiskStation Manager (DSM)

High Performance, High Data Availability

With the Link Aggregation enabled, Synology DS1812+ delivers an average 194.4 MB/sec writing speed under RAID 5 configuration in a Windows® environment, and 192.3 MB/sec reading. Coming with USB 3.0 support which offers transmission speeds of up to 5 Gbps, namely 10 times faster than USB 2.0, DS1812+ takes less time for data transfer for external hard drives and consumes less power. Synology DS1812+ brings you the high performance that your data-intensive applications demand for a storage system, and offers the ability to scale the storage capacity.

High Reliability

Reliable functioning of commercial systems is of paramount concern to business users who depend on these servers every day. Synology DS1812+ is now introduced with the fanless CPU heatsink to prevent the single point of failure. With the CPU passive cooling technology, Synology DS1812+ achieves the high reliability system design. When one of your system fans malfunctions, the built-in system fan redundancy mechanism can extend service uptime by keeping the remaining fan running and your DS1812+ performing basic operations until the replacement fan arrives. The 2 LAN with failover support and hot-swappable drives will ensure continual service uptime should the drives need replacement or the unexpected LAN failure occurs. Business need a strong foundation to face mission-critical tasks so the Synology DS1812+ delivers high reliability ensuring data access when it is needed.

Robust & Affordable Scalability Up to 54 TB

When the storage capacity of the Synology DS1812+ is nearing its limits, it can easily be expanded with the Synology DX510². The Synology DX510 securely connects to the Synology DS1812+ via an eSATA cable of specially-designed connectors on both ends to ensure maximum throughput. The Synology DX510 can directly expand the existing storage on the Synology DS1812+ to a maximum 54 TB capacity.

Unified-Architecture and Virtualization Ready

Synology DS1812+ runs on the novel operating system, Synology DiskStation Manager (DSM), which integrates file-level and block-level storage in one unified storage system. Comprehensive network protocol support (CIFS/SMB, AFP and NFS) assures seamless file sharing across Windows, Mac[®], and Linux[®] platforms.

iSCSI is also supported as the ideal alternative to SAN solution for business. Affordable and cost-effective iSCSI allows large scale business to consolidate storage into data center storage arrays while providing hosts with the illusion of locally-attached disks. With the iSCSI support, DS1812+ provides a seamless storage solution for virtualization servers, such as VMware, Citrix, and Hyper-V.

Thin Provisioning is available for file-level iSCSI, enabling administrators to oversubscribe provision and then grow storage space as needed in safety. With Thin Provisioning, users are able to maximize the storage utilization to reduce the total cost of ownership for the storage system.

Full-featured Business Applications

The Synology DS1812+ runs on the renowned operation system, Synology DSM, offering applications and features designed specifically for SMBs. Comprehensive network protocol support assures seamless file sharing across Windows, Mac, and Linux platforms. Windows ADS and LDAP integration allows the Synology DS1812+ to quickly and easily fit in an existing business network environment with no need to recreate user accounts.



Directory Server package can turn DS1812+ into an LDAP-based directory server within minutes. IT administrators can bind other DiskStations to the directory server. With the same batch of directory user accounts or groups, employees can access all the DiskStations with the same user credentials.

Windows ACL support on DS1812+ provides much finer-grained access control and efficient privilege settings, allowing IT staffs to set up privileges to files and folders on DS1812+ through their familiar Windows user interface. The privileges set on Windows ACL will be applied to all access entries, including AFP, FTP, File Station, NFS and WebDAV. The secure privilege offers IT staff peace of mind, no worries about any loopholes.

Internet file access is simplified with the included encrypted FTP server and the web-based file explorer, Synology File Station. HTTPS, the built-in firewall, and IP auto-block support ensure file sharing over the Internet is protected at a high security level.

A wealth of additional features allows the Synology DS1812+ to replace several pieces of network hardware. Synology Web Station with support for PHP/MySQL® content allows for the hosting of up to 30 websites on a single Synology DS1812+. Synology Surveillance Station offers a centralized interface to safeguard the office environments by deploying IP cameras throughout the network. The built-in mail server turns a Synology DS1812+ into a dedicated mail service provider and the USB printer sharing capability minimizes businesses' printing cost by sharing printing resources throughout the office.

Energy Efficient Design

Synology DiskStation are designed and developed with energy efficiency in mind. Compared with the average PC counterparts, Synology DS1812+ consumes only 50.6 watts in operation. The support of wake on LAN, scheduled power on/off and hard drive hibernation can further reduce power consumption and operation cost.

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



DX510

Storage Temperature: -10°C to 70°C (15°F to 155°F) Relative Humidity: 5% to 95% RH Max Operating Altitude: 10,000 feet Power Consumption: 71.5W (Access); 60.5W (idle);28.6W (HDD Hibernation)⁴ Certification: FCC Class B, CE Class B, BSMI Class B 3-year Limited Warranty

in WAV and AIF format can be streamed, but the metadata (ex: title, album) may not be indexed on the iTunes.) Supported Video Format: MAV, MOV, MP4 Supported Playlist Format: M3U, WPL

CONNECTIONS & BUTTONS





Technical Specifications

Technical Specifications	
Hardware	
CPU: 2.13GHz, with floating point RAM Size: 16B Internal HDD: 35" or 2.5" SATA(III) X 8 (Hard drives not included) External HDD Interface: X1 USB 2.0 ports, 2X USB 3.0 ports, Xz eSATA ports Size: 157mm X 340mm X 233mm Weight: 5.21 X Gigabit Link Aggregation fan: 2X (120mm X 120mm)	Wireless Support (wireless dongles not included) Wake on LAN Noise Level: 28.8 dB(A) ¹ Hot Swappable HDD Power Recovery AC Input Power Voltage: 100V to 240V Power Frequency: 50H zo 60Hz, Single Phase Max Internal Capacity: 24TB (8X 3TB hard drives) (The actual capacity will differ according to volume types) Operating Temperature: 5°C to 35°C (40°F to 55°F)
Applications	
File Browser • Virtual Drive • Remote Folder File Station	M4V, MOV, MP4, MPEG, MPG, QT, WMV, XviD, RM, RMVB, VOB, RV30, RV40, AC3, AMR, WMA3 (User can click and download the following video formats: RM, RMVB, VOB, RV30, RV40, AC3, AMR, WMA3, but not able to play it in Photo Station as
	compressed Flash® video.)
FTP Server Bandwidth Control Custom FTP Passive Port Range Anonymous FTP Transfer Log	Download Station - Supported Download Protocols: BT/HTTP/FTP/NZB/eMule - Custom BT Port - BT / eMule Bandwidth Control
Mail Server Supported Mail Server Protocol : POP3, SMTP, IMAP 	 Audio Station Supported Audio Format: (USB Mode) AAC, FLAC, M4A, MP3, Ogg Vorbis, WMA, WMA VBR; (Streaming Mode) MP3,
Web Station Virtual Host (up to 30 websites) PHP/MySQL®	M4A, M4B • Supported Playlist Format: M3U, WPL • Internet Radio: SHOUTcast*, Radioio*
Alternative HTTP Error Page 3rd-Party Applications Support	DLNA*/UPnP* Media Server • DLNA Certified
Surveillance Station • Default IP cam #: 1 • MX1P cam #: 1 • MX2P cam #: 1 • MX2P cam #: 1 • Camera. Additional licenses can be purchased to expand the license quota.)	 PS3/Xbox 360° Support Supported Audio Format: AAC, FLAC, M4A, MP3, Ogg Vorbis, PCM, WAV, WMA, WMA VBR, WMA PRO, WMA Lossless Supported Video Format: 3GP 3G2, ASF, AVI, DAT, DivX, DVR- MS, ISO, MXT, MATS, M4W, MKV, MPA, MFEG1, MFEG4, MFEG4
Photo Station • Facebook Integration • Supported Image Format: BMP, JPG (jpe, jpeg), GIF, RAW (arw, srf, sr2, drc, k25, kdc, cr2, crw, nef, mrw, ptx, pef, raf, 3fr, erf,	MTS, MOV, QT, SWF, TP, TRP, TS, VOB, WMV, XviD, RMVB • Supported Image Format: BMP, JPG (jpe, jpeg), GIF, ICO, PNG, PSD, TIF (tiff), UFO • Supported Subtitles Format: srt, psb, smi, ass, ssa, sub, idx, ifo
mef, mos, orf, rw2, dng, x3f) • Supported Video Format: 3G2, 3GP, ASF, AVI, DAT, DivX, FLV,	iTunes [®] Server Supported Audio Format: MP3, M4A, M4P, WAV, AIF (The music
General Specifications	
Networking Protocols CIFS, AFP, FTP, iSCSI, Telnet, SSH, NFS, SNMP, WebDAV, CalDAV 	Windows Access Control List (ACL) Support
File System	 Windows ADS Domain Integration Domain Users login via CIFS/AFP/FTP/File Station
EXT4 EXT3 (External Disk Only) FAT32 (External Disk Only) NTFS (External Disk Only)	Backup Solutions • Network Backup • Shared Folder Sync • Local Backup
Volume Management • Synology Hybrid RAID Max Volume #: 512 • Max ISCSITarget / LUN: 32 / 256 • Volume Type: Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID	 Time Backup Desktop Backup (using Synology Data Replicator 3 or Apple[®] Time Machine[®] backup application) 3rd-Party Backup Support

- Max iSCSITarget 7, UNI: 327,256
 Volume Type: Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 5, SApare, RAID 6, RAID 10, RAID 1, Basic to RAID 5, Basic to RAID 5, Sapare, RAID 5, RAID 1, Basic to RAID 5, Basic to RAID 5, BAID 5, RAID 15, RAID 5, RAID

- Hile Sharing Capability
 Max User Accounts: 2048
 Max Groups: 256
 Max Groups: 256
 Max Concurrent Connections (CIFS, FTP, AFP): 512

Environment and Packaging

Environment RoHS Compliant

- Package Content DS1812+ Main Unit Installation DVD
- With Link Aggregation enabled. The performance figures could vary on different environments.
 DS1812+ supports up to two Synology DX510, purchased
- separately. 3. Fully loaded with Seagate[®] ST31000520AS hard drive(s) in

Networking



Security • FTP over SSL/TLS • IP Auto-Block • Firewall • Encrypted Network Backup over rsync • HTTPS Connection

HTTPS Connection
 Management
 Auto DSM Update
 Email Notification
 SMS Notification
 Outo Submized User Quota
 DDNS Support
 PPPoE
 Resource Monitor
 UPS Management
 Multiple Scheduled Power On/Off
 Custom Management UI HTTP/HTTPS Ports

Welcome Note Assembling Kit AC Power Cord 2M RJ-45 LAN Cable X 2





PC / Mac / Linux



PC / Mac / Linux

- Augported inspirat of matching in the intervention
 Max Prints Perver
 Max Printer #: 2
 Printing Printer #: 2
 Printing Printer of IV: For Mac users, DS1812+ supports
 PostScript USB Printers only
 Multi Functional Print Server ation Jownload Protocols: BT/HTTP/FTP/NZB/eMule Multi Functional Print
 Squeezebox Server³⁰
 Mail Station
 Squeezebox Server³⁰
 Webalizer
 phpMyAdmin
 Time Backup
 VFN Server
 Word/ress⁴⁰
 Syslog Server
 Directory Server
 Hibrive³ Backup
 OpenERP
 HASP
 MCS⁴⁰ ո udio Format: (USB Mode) AAC, FLAC, M4A, rbis, WMA, WMA VBR; (Streaming Mode) MP3,

 - iOS* and Android[™] Applications DS photo+ DS audio DS cam DS file

 - DS finder

- HDD Management Deep Sleep HDD Hibernation S.M.A.R.T. Dynamic Bad Sector Mapping

- Utilities

 Synology Assistant
 Synology Data Replicator
- Supported Browsers
- Chrome™ Internet Explorer® 7, 8, and 9 Firefox® Safari® 4 and 5 (Mac)

- Supported Clients

 Windows 2000 onward
 Mac OS X 10.3 onward
 Ubuntu 9.04 onward
- Supported Mobile Devices (Photo Station, File Station) IPhone® OS 2.2.1 onward Android OS 1.5 onward Windows Mobile (IE Mobile or Opera 9.0 onward) Symbian® OS 9.1, 560 3rd Edition onward

- 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

Optional Accessories

- Remote
 Camera License Pack
 2GB RAM Module
- Measured with 5 Western Digital[®] 3TB WD30EZRS hard drive. The figures could vary on different environments.

Founded in 2000, Synology is a young and energetic company dedicated to developing high-performance, reliable, versatile, and environmentally-friendly Network Attached Storage (NAS) products. Our goal is to deliver user-friendly solutions and solid customer service to satisfy the needs of businesses, home offices, individual users and families.

SYNOLOGY INC.

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http://www.synology.com

Headquarters Synology Inc. 3F-3, No. 106, Chang An W. Rd., Taipei, Taiwan Tel: +886 2 2552 1814 Fax: +886 2 2552 1824

North & South America Synology America Corp. 2899 152nd Ave NE, Redmond, WA 98052. USA Tel: +1 425 818 1587

Synology UK Ltd. Davy Avenue, Knowlhill, Milton Keynes, Bucks, MK5 8PB. UK Tel: +44 01908 673 709

- - USB Printer
 - 0 Windows ADS Server
 - - 0

IP Camera