Svnologv



Synology DiskStation DS1512+

High Performance NAS Server Scales up to 15 Drives for SMB Users

Synology DiskStation DS1512+ 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 DS1512+ is backed with Synology's 3-year limited warranty.

Highlights

- 194.6 MB/sec Writing, 192.4 MB/sec Reading¹
- Scaling up to 15 Drives with Synology DX510
- Featuring SuperSpeed USB 3.0
- Expandable RAM Module (Up to 3GB)
- 2 LAN with Link Aggregation Support
- Fanless Motherboard & 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 DS1512+ delivers an average 194.6 MB/sec writing speed under RAID 5 configuration in a Windows[®] environment, and 192.4 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, DS1512+ takes less time for data transfer for external hard drives and consumes less power.

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. The replaceable/redundant system fans and fanless CPU heatsink are introduced in DS1512+, making it even more reliable and silent. Businesses need a strong foundation to face mission-critical tasks so the Synology DS1512+ delivers high-performance with high data availability ensuring access when it's needed.

Robust & Affordable Scalability Up to 45 TB

When the storage capacity of the Synology DS1512+ is nearing its limits, it can easily be expanded with the Synology DX510². The Synology DX510 securely connects to the Synology DS1512+ 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 DS1512+ to a maximum 45 TB capacity.

iSCSI and Virtualization Ready

With the iSCSI support in DSM, the Synology DS1512+ provides a seamless storage solution for virtualization servers, such as VMware, Hyper-V, and Citrix. It is the ideal alternative to SAN solution for businesses. Affordable 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.

Full-featured Business Applications

The Synology DS1512+ 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 DS1512+ to quickly and easily fit in an existing business network environment with no need to recreate user accounts.

Directory Server package can turn DS1512+ 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 DS1512+ provides much finer-grained access control and efficient privilege settings, allowing IT staffs to set up privileges to files and folders on DS1512+ 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 DS1512+ 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 DS1512+. 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 DS1512+ 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 DS1512+ 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

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: 50.6W (Access); 44W (idle);22W (HDD Hibernation)⁴ Certification.FCC Class B, CE Class B, BSMI Class B 3-year Limited Warranty

CONNECTIONS & BUTTONS





SYNOLOGY INC.

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.

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Etr3, AP, FTF, ISCSI, Teiner
 EXT4
 EXT3 (External Disk Only)
 FAT32 (External Disk Only)
 NTFS (External Disk Only)

General Specifications

Technical Specifications

Paraware
 - CPU: 2.13GHz, with floating point
 - RAM 55xe: 1 GB
 - Internal HDD: 3.5" or 2.5" SATA(II) X 5 (Hard drives not included)
 - External HDD Interface: AX USB 2.0 ports, 2X USB 3.0 ports,
 2X eSATA ports
 - Size: 157mm X 248mm X 233mm
 Weight 4.25Ag
 - LAN: 2X Gigabit
 - Link Aggregation
 - Fan: 2X (80mm X 80mm)

Hardware

Applications

File Browser

Virtual Drive
Remote Folder File Station

FTP Server

Bandwidth Control
 Custom FTP Passive Port Range
 Anonymous FTP
 Transfer Log

Supported Mail Server Protocol
 Web Station
 Virtual Host (up to 30 websites)
 PHP/MySQL*
 Alternative HTTP Error Page
 3rd-Party Applications Support

Surveillance Station

the license quota.)

Photo Station

Mail Server

Supported Mail Server Protocol : POP3, SMTP, IMAP

Default IP cam #: 1 MAX IP cam # (licenses required): 20 (1 free license to install 1 IP camera. Additional licenses can be purchased to expand

Photo Station - Sacebook Integration - Supported Image Format: BMP, JPG (jpe, jpeg), GIF, RAW (arw, srf, sr2, dcr, k25, kdc, cr2, crw, nef, mrw, ptx, pef, raf, 3fr, erf, mef, mos, orf, rw2, dng, x31 - Supported Video Format: 3G2, 3GP, ASF, AVI, DAT, DivX, FLV,

Networking Protocols
CIFS, AFP, FTP, iSCSI, Telnet, SSH, NFS, SNMP, WebDAV, CalDAV

- NTFS (External Disk Only)
 Volume Management
 Synology Hybrid RAID
 Max KSCI Targer (LUN: 32, 726
 Wolume Type: Basic, IBOD, RAID 0, RAID 1, RAID 5, RAID
 S-Fspare, RAID 10, RAID 10, RAID 11, RAID 5, RAID
 Sto RAID 5, FABR, RAID 1, RAID 5, RAID 10, RAID 5, Spare, RAID
 Sto RAID 5, SARD 10, RAID 15, RAID 15, RAID 15, Basic to
 RAID 5, Spare, RAID 10, RAID 5, RAID 10, RAID 5, Spare, RAID
 Sto RAID 5, RAID 10, RAID 5, RAID 10, RAID 5, Spare, RAID
 Sto RAID 5, RAID 10, RAID 5, RAID 10, RAID 5, Spare, RAID
 Sto RAID 5, Spare, RAID 5, RAID 10, RAID 5, Spare, RAID
 Sto RAID 5, RAID 15, RAID 15, RAID 16, With Larger
 Hard Drives
 Expand RAID 5, RAID 5+Spare, and RAID 6 by Adding a Hard
 Drive On The Fly
 Volume Expansion with DX510
 Elie Sharing Canability

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

Environment and Packaging

RoHS Compliant

- Package Content
 DS1512+ Main Unit
 Installation DVD

- With Link Aggregation enabled. The performance figures could vary on different environments.
 DS1512+ supports up to two Synology DX510, purchased
- separately. 3. Fully loaded with Seagate[®] ST31000520AS hard drive(s) in

Networking

operation; Two G.R.A.S. Type 40AE microphones, each set up at 1 meter away from the DiskStation front and rear; Background noise: 17.2 dB(A); Temperature: 23.6°C; Humidity: 58.2%; More details about dB(A) value, check http://www.mettechacoustica com/facts.asp External Disk DS1512+



PC / Mac / Linux

PC / Mac / Linux

- 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.) 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 Print Server Max Printer #: 2 Printing Price #: 2 Printing PriceOcis LPR, CIFS, AppleTalk*, Apple AirPrint**, Google Cloud Print* (For Mac users, DS1512+ supports PostScript USB printers only) Multi Functional Print Server Download Station - Supported Download Protocols: BT/HTTP/FTP/NZB/eMule - Custom BT Port - BT / eMule Bandwidth Control Multi Functional Printi Synology Packages
 Mail Station
 Squeezebox Server^{an}
 Webalizer
 phpMyAdmin
 Time Backup
 VPN Server
 WordPress^{an}
 Syslog Server
 Directory Server
 HiDrive[®] Backup
 HASP
- Allor Station Control Audio Station Format: (USB Mode) AAC, FLAC, M4A, M73, Ogg Vorbis, WMA, VMA VBR; (Streaming Mode) MP3, M4A, M48 Supported Playlist Format: M3U, WPL Internet Radio: SHOUTcast*, Radioio*

Wireless Support (wireless dongles not included)
 Wake on LAN
 Noise Level: 25.8 dB(A)¹
 Hot Swappable HDD
 Power Recovery
 A Clinput Power Voltage: 100V to 240V
 Power Voltage: 100V to 240V
 Power Frequency: 50Hz to 60Hz, Single Phase
 Max Internal Capacity: 15TB (SX 3TB hard drives) (The actual
 capacity will differ according to volume types.)
 Operating Temperature: 5°C to 35°C (40°F to 95°F)

- Internet Radio: SHOUTCast', Radioio*
 DLNA*/UDP* Media Server
 DLNA Certified
 DLNA Certified
 Support
 Supported Audio Format: AC, FLAC, M4A, MP3, Ogg Vorbis,
 PCM, WAV, WAW, WAN, WAM, PRO, VMA Lossless
 Supported Video Format: SG 55 G2, ASF, AV, DAT, DixX, DVR:
 MS, ISO, MZT, M2TS, M4V, MKV, MP4, MPEG1, MPEG3, MPEG4,
 MTS, MOV, QT, SWF, TP: RTP: XVOB; WMV, XVD, RMVB
 Supported Image Format: SMP, JPG (jpe, jpeg), GIF, ICO, PNG,
 PSD, TIF (tiff), UFO
 Supported Subtitles Format: srt, psb, sml, ass, ssa, sub, ido, iffo
 Tunae*Server

iTunes[®] Server • Supported Audio Format: MP3, M4A, M4P, WAV, AIF (The music

Windows Access Control List (ACL) Support

- Windows ADS Domain Integration
 Domain Users login via CIFS/AFP/FTP/File Station
- **Backup Solutions**
- Network Backup Shared Folder Sync Local Backup Time Backup Desktop Backup (using Synology Data Replicator 3 or Apple* Time Machine* backup application) 3rd-Party Backup Support

- 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

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

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

iOS^{*} and Android[™] Applications DS photo+ DS audio DS cam DS file

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

Optional Accessories

Remote
 Camera License Pack
 2GB RAM Module

Language

DS finder

- Measured with 5 Western Digital[®] 3TB WD30EZRS hard drive. The figures could vary on different environments.







IP Camera























USB Printer









