ComX Computers
Product Specification Sheet

SYN-DS1512+

SYNOLOGY Disk Station DS1512+ 5-Bay NAS

Product Overview

SYNOLOGY Disk Station DS1512+ - 5-Bay, Serial-ATA 3Gbps, ATOM D2700 2.13GHz Dual Core, 1GB DDR3 RAM (Up to 3GB), 2x Gigabit LAN, USB 3.0, DSM 4.0











Specifications

Overview:

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.

Features:

High Performance, High Data Availability
With the Link Aggregation enabled, Synology DS1512+ delivers an average 194.83 MB/sec writing speed under RAID 5 configuration in a Windows environment, and 200.31 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. Synology DS1512+ 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 DS1512+ is now introduced with the fanless CPU heatsink to prevent the single point of failure. With the CPU passive cooling technology, Synology DS1512+ 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 DS1512+ 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 DS1512+ delivers high reliability ensuring data access when it is needed.

Robust & Affordable Scalability Up to 60TB
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 60TB 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.

Specifications:

Hardware	
CPU Frequency	Dual Core 2.13GHz
Floating Point	Yes
Memory	DDR3 1 GB (Expandable, up to 3GB)
Internal HDD/SSD	3.5" or 2.5" SATA(II) X5 (Hard drive not included)
Max Internal Capacity	20TB (5X 4TB HDD) (Capacity may vary by RAID types) (See All Supported HDD)
Hot Swappable HDD	Yes
External HDD Interface	USB 3.0 Port X 2, USB 2.0 Port X 4, eSATA Port X 2
Size (HxWxD)	157 X 248 X 233 mm
Weight	4.25Kg
LAN	Gigabit X 2
Link Aggregation	Yes
Wake on LAN/WAN	Yes
System Fan	80x80mm x2
Easy Replacement System Fan	Yes
Wireless Support	Yes
Noise Level	28.8 dB(A)
Power Recovery	Yes
AC Input Power Voltage	100V to 240V AC
Power Frequency	50 / 60Hz, Single Phase
Power Consumption	50.6W (Access) ; 22W (HDD Hibernation)
Operating Temperature	5 degreesC ~ 35 degreesC (40 degreesF ~ 95 degreesF)
Storage Temperature	15 to 155 degreesF (-10 to 70 degreesC)

Relative Humidity	5% to 95% RH
Maximum Operating Altitude	10, 000 feet
Certification	FCC Class B, CE Class B, BSMI Class B
Applications	
File Station	Virtual Drive
	Remote Folder
Backup Solutions	Network Backup
	Local Backup
	Desktop Backup (Window: Synology Data Replicator 3, Mac: Apple Time Machine backup application)
	Shared Folder Sync - Max task number : 8
	LUN Backup - Max Concurrent Task Number : 8
	Configuraiton Backup
Mail Server	Supported Protocols : POP3, SMTP, IMAP
FTP Server	Bandwidth Control, Custom FTP Passive Port Range, Anonymous FTP, Transfer Log
Web Station	Virtual Host (up to 30 websites)
	PHP/MySQL
	3rd-Party Applications Support
Print Server	Max Printer # : 2
	Printing Protocols : LPR, CIFS, IPP, Apple AirPrint, Google Cloud Print, Multi Functional Print Server (for Windows PC only)
iOS/Android Applications	DS photo+
	DS audio
	DS cam
	DS file
	DS finder
Windows Phone Applications	DS finder
Add-on Packages	
Surveillance Station	MAX IP cam # (Licenses required) : 20 (1 Free License)
	Total frame rate (FPS) : 200 FPS @ WXGA (1280x800).
Directory Server	LDAP Directory Server
	Backup and Restore LDAP Database
VPN Server	Maximum Connections : 20
	VPN Method: PPTP, OpenVPN
DHCP Server	Independent DHCP Server on Different Network Interfaces
	Multiple Subnets Support
	Address Reservation

Syslog Server	SSL Connection
	Log Rotation: 6 months, 1 year, 2 years, 3 years
	Email Notificaiton
Mail Station	Webmail Interface for Mail Server
	Receiving Mails from Multiple POP3 Mailboxes
	Customizable SMTP Server
Antivirus Essential	Full System Scan
	Scheduled Scan
	White List Customization
	Virus Definition Auto Update
Time Backup	Maximum Task Number : 8
	Multiple File Versions Retained
	Instant File Restoration
Cloud Station	Maximum User Accounts : 32
	Retain Historical and Deleted File Versions
HiDrive Backup	Backup DiskStation data to STRATO HiDrive online storage
Photo Station	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, x3f)
	Supported Video Format : 3G2, 3GP, ASF, AVI, DAT, DivX, FLV, 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.
Audio Station	Supported Audio Format (USB Mode) : AAC, FLAC, M4A, MP3, Ogg Vorbis, WMA, WMA VBR
	Supported Audio Format (Streaming Mode) : MP3, M4A, M4B
	Supported Playlist Format : M3U, WPL
	Internet Radio : SHOUTcast, Radioio
iTunes Server	Supported Audio Format : MP3, M4A, M4P, WAV, AIF, The music in WAV and AIF format can be streamed, but the metadata (ex: title, album) may not be indexed on the iTunes
	Supported Video Format : M4V, MOV, MP4
	Supported Playlist Format : M3U, WPL
DLNA/UPnP Media Server	PS3/Xbox 360 Support
	Supported Audio Format : AAC, AIFF, APE, FLAC, M4A, Apple Lossless, MP3, Ogg Vorbis, PCM, WAV, WMA, WMA VBR, WMA PRO, WMA Lossless
	Supported Video Format : 3GP, 3G2, ASF, AVI, DAT, DivX, DVR-MS, ISO, M2T, M2TS, M4V, MKV, MP4, MPEG1, MPEG2, MPEG4, MTS, MOV, QT, SWF, TP, TRP, TS, VOB, WMV, XviD, RMVB (The actual playback capabilities may vary depending on the DLNA/UPnP client)
	Supported Image Format : BMP, JPG (jpe, jpeg), GIF, ICO, PNG, PSD, TIF (tiff), UFO
Download Station	Supported Download Protocols : BT/HTTP/FTP/NZB/eMule
	Maximum Concurrent Download Tasks : 80

Packages by 3rd Party	HASP
	phpMyAdmin
	Webalizer
	Logitech Media Server
	WordPress
	OpenERP
General	
Networking Protocols	CIFS
	AFP
	NFS
	FTP
	WebDAV
	iSCSI
	Telnet
	SSH
	SNMP
	VPN (PPTP, OpenVPN)
File System	EXT4
	EXT3(External Disk Only)
	FAT (External Disk Only)
	NTFS (External Disk Only)
Storage Management	Max File System Size : 108TB
	Max Internal Volume # : 512
	Max iSCSI Target # : 32
	Max iSCSI LUN # : 256
	Supported RAID Type : Synology Hybrid RAID, Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 5+Spare, RAID 6, RAID 10
	RAID Migration : Basic to RAID 1, Basic to RAID 5, Basic to RAID 5+Spare, RAID 1 to RAID 5, RAID 1 to RAID 5+Spare, RAID 5 to RAID 5+Spare, RAID 5 to RAID 6
	Volume Expansion with Larger HDDs : RAID 1, RAID 5, RAID 5+Spare, RAID 6
	Volume Expansion by Adding a HDD : RAID 5, RAID 5+Spare, RAID 6
	Synology Expansion Unit Support : DX510
File Sharing Capability	Max User Accounts : 2048
	Max Groups : 256
	Max Shared Folder : 256
	Max Concurrent CIFS/AFP/FTP Connections : 512
Windows ADS Domain Integration	Domain Users login via Samba/AFP/FTP/File Station

Virtualization	Vmware vSphere 4
	Microsoft Hyper-V
	Citrix Ready
Security	FTP over SSL/TLS
	IP Auto-Block
	Firewall
	Encrypted Network Backup over Rsync
	HTTPS Connection
Management	Auto DSM Upgrade
	Administrator Group
	Push Notification - MSN/Skype/Mobile Devices
	Email/SMS Notification
	Customized User Quota
	Syslog Support
	DDNS Support
	IPv6 Support
	VLAN support
	PPPoE
	Hotspot
	Resource Monitor
	Connection Manager
	UPS Management
	Scheduled Power On/Off
	Custom Management UI HTTP/HTTPS Ports
HDD Management	HDD Hibernation
	S.M.A.R.T.
	Dynamic Bad Sector Mapping
Utilities	Synology Assistant
	Synology Data Replicator
Supported Clients	Windows XP onward
	Mac OS X 10.5 onward
	Ubuntu 9.04 onward
Supported Browsers	Chrome
	Firefox
	Internet Explorer : 8, 9
	Safari (MAC) : 5
Language	English, Deutsch, Français, Italiano, Español, Dansk, Norsk, Svensk, Nederlands

Environment and Packaging	
Environment	RoHS Compliant
Package Content	Main Unit X 1
	Installation Disc X 1
	Welcome Note X 1
	Assembling Kit X 1
	AC Power Cord X 1
	RJ-45 LAN Cable X 2

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-DS1512-SYNOLOGY-Disk-Station-DS1512-5-Bay-NAS-p-60508.php

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