Synology DiskStation DS3612xs



Ultra-High performance NAS Server Scales up to 100TB for Large Scale Business

Synology® DiskStation DS3612xs offers ultra-high performance, scalable and full-featured network attached storage solution for large scale businesses that require an efficient way to centralize data protection, simplify data management, deploy virtualization solutions, and rapidly expand storage capacity with minimal time spent on setup and management. Synology DS3612xs is backed with Synology's 3-year limited warranty.

Highlights

- Ultra-high performance of 1000+ MB/sec throughput and 100,000+ IOPS¹
- Scale up to 100TB with Synology DX1211²
- Dual 10GbE ports support (with PCI-E add-on card)
- VMware[®], Citrix[®], Microsoft[®] Hyper-V[®] compliance
- CPU Passive Cooling Technology
- Expandable ECC RAM module (up to 6GB)
- Running on Synology DiskStation Manager (DSM)

Ultra-High Performance

With Link Aggregation, Synology DS3612xs delivers the high performance of over 1000 MB/sec throughput and 100,000 IOPS under RAID 5 configuration¹. In addition to the default 4 Gigabit ports, dual 10GbE are supported with the add-on PCI Express x8 Gen2 Network Interface Card to maximize the system bandwidth. DS3612xs is able to bring you the ultrahigh performance that your data-intensive application demands on the storage system.

High Reliability & Availability

Reliable functioning of commercial systems is of paramount concern to business users that depending on these servers everyday. Synology DS3612xs is now introduced with the fanless CPU heatsink to prevent the single point of failure, with the CPU passive cooling technology DS3612xs achieves the high reliability system design.

The network ports with failover support combining with hot-swappable drives will ensure continual service uptime during drives replacement or unexpected LAN failure. The ECC RAM module on DS3612xs will detect and correct errors that occur during data transmission. Supporting up to 6GB ECC RAM, DS3612xs provides secure data protection and performance to meet the need of large scale businesses for a strong foundation to face mission-critical tasks.

Robust Scalability Up to 100 TB

Synology DS3612xs is also designed to grow with your business and provides the ability to seamlessly expand a single volume up to 100TB on the fly. When the storage capacity of DS3612xs is nearing its limits, it can easily be expanded with Synology DX1211². It is connected to DS3612xs via an Infiniband cable that carries 12 Gb/s SATA signal to ensure maximum throughput.

Management of the large storage space on DS3612xs is simple and flexible. Multiple Volumes on RAID allows users to create more than one volume on a RAID structure, providing a flexible and efficient way to manage the storage across all hard drives. When the need for more space arises, the volume could be easily expanded without any service disruption.



Unified Storage and Virtualization Ready

Synology DS3612xs runs on the novel operating system, Synology DiskStation Manager (DSM), which integrates file-level and block-level storage in one unified storage system platform providing management simplicity to reduce your total cost of ownership.

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, RS3412xs/RS3412RPxs provides a seamless storage solution for virtualization servers, such as VMware, Citrix, and Hyper-V. RS3412xs/RS3412RPxs is also certified with the latest VMware vSphere® 5, supporting VMFS-5 and extended storage migration capability with better flexibility and higher performance in VMware virtualization platform.

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 DS3612xs offers applications and features designed specifically for large scale business. Windows ADS and LDAP integration allows DS3612xs to guickly and easily fit in an existing business network environment without recreating user accounts. Windows ACL support on DS3612xs provides much finer-grained access control and efficient privilege settings, allowing IT staffs to set up privileges to files and folders on DS3612xs through their familiar Windows user interface.

The built-in backup application is provided for backing up data in the DS3612xs to another Synology NAS, expansion unit, any rsync server via an encrypted transmission. It is even possible to back up from DS3612xs to the cloud with the Amazon[®] S3 support. Shared Folder Sync is also available in DSM for implementing disaster recovery plans. With Shared Folder Sync, DS3612xs is able to replicate data to another DiskStation within the Intranet or across the Internet, helping to reduce the risk of business interruption.

Energy Efficient Design

Synology DS3612xs is designed and developed with energy efficiency in mind. Compared with the average storage server counterparts, DS3612xs consumes a relatively low amount of power and have the hard drives hibernate when not in use.

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



HDD Tray



LAN Port USB 2.0 Port Fan

Technical Specifications

Separately.
 Hard drive not included.

Networking

Hardware 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⁺: 132 W (Access); 57.2 W (HDD Hibernation) Certification: FCC Class B, BSMI Class B 3-year Limited Warranty Wireless Support (wireless dongles not included)
 Wake on LAN
 Noise Level: 294 dB(A)
 HotS Swappable HDD
 Power Recovery
 AC Input Power Voltage: 100V to 240V
 Power Frequency:: 50Hz to 60Hz, Single Phase
 Max Internal Capacity: 36TB (L2X 3TB hard drives)*
 Operating Temperature: 5°C to 35°C (40°F to 95°F) CPU: Dual Core 3.1GHz, with floating point RAM Size: ECC RAM 2GB Internal HDD: 12X 3.5" SATA(III) or 12X 2.5" SATA/SSD External HDD Interface: 2X Expansion nort Expansion Interface: 2X Expansion port Size (H X W X D): 310 mm X 300 mm X 340mm Weight: TI Size Size (H X W X D): 310 mm X 300 mm X 340mm
 Weight: 10.53 kg
 LAN: 4K Gigabit (10 GbE X2 add-on card is supported)
 Fan: 120mm X 120mm X2 Applications File Browser
 Virtual Drive
 Remote Folder M4V, MOV, MP4, MPEG, MPG, OT, WMV, XviD, RM, RMVB, VOB, Supported Playlist Format: M3U, WPL RV30, RV40, AC3, AMR, WMA3 Printer Server **Download Station** Max Printer #: 2
 LPR, CIFS, AppleTalk[®], Apple AirPrint[™], Google Cloud Print[™] Supported Download Protocols: BT/HTTP/FTP/NZB/eMule
 Custom BT Port Range
 BT / eMule Bandwidth Control File Station (For Mac users, DS3612xs supports PostScript USB printers FTP Server only.) ndwidth Control Bandwidth Control
 Custom FTP Passive Port Range
 Anonymous FTP
 Transfer Log Multi Functional Print Server Audio Station Supported Audio Format: (USB Mode) AAC, FLAC, M4A, MP3, Ogg Vorbis, WMA, WMA VBR; (Streaming Mode) MP3, M4A, M4B Synology Packages • Mail Station 2 Mail Station 2 Squeezebox Server³⁸ Webalizer phpMyAdmin Time Backup VPN Server WordPress[®] Mail Server M4A, M4B
 Supported Playlist Format: M3U, WPL
 Internet Radio: SHOUTcast[®], Radioio[®] Supported Mail Server Protocol : POP3, SMTP, IMAP Web Station **DLNA/UPnP Media Server**
 Web Station

 • Virtual Host (up to 30 websites)

 • PHP/MySQL®

 • Alternative HTTP Error Page

 • 3rd-Party Applications Support
 DLNA/UPhP Media Server DLNA Certified PS3/Kbox 360° Support Supported Audio Format: AC, FLAC, M4A, MP3, Ogg, Vorbis, PCM, WAV, WMA, WMA VBR, WMA PR0, WMA Lossiess Supported Video Format: 36° 36° 24, 25, FA, UDAT, DIVX, DVR-MS, ISO, MZT, MATS, MAV, MKV, MP4, MPEG1, MPEG3, MPEG4, MTS, MOV, OT, SWF, TP, TRP, TS, VOB, WMV, XviD, RY30, RV40, AC3, AMR, WMA3 Syslog Server Directory Server HiDrive® Backup Surveillance Station OpenERP
HASP Default IP cam #:1 MAX IP cam #:1 MAX IP cam # (licenses required): 50 (1 free license to install 1 IP camera. Additional licenses can be purchased to expand the license quota.) iPhone/Android Applications ALS, ANN, WMA3 Supported Image Format: BMP, JPG (jpe, jpeg), GIF, ICO, PNG, PSD, TIF (tiff), UFO, RAW (arw, srf, sr2, dcr, k25, kdc, cr2, crw, nef, mrw, ptx, pef, raf, 3fr, erf, mef, mos, orf, rv2, dng, x3f) Supported Subtitles Format: srt, psb, smi, ass, ssa, sub, idx, ifo DS photo+
 DS audio Photo Station
 Facebook 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, ard; rw2, dcg, x3f)
 Supported Video Format*: 3G2, 3GP, ASF, AVI, DAT, DivX, FLV, DS adda.
 DS cam DS file DS finder iTunes* Server

Supported Audio Format²: MP3, M4A, M4P, WAV, AIF
Supported Video Format: M4V, MOV, MP4 **General Specifications** Networking Protocols

CIFS, AFP, FTP, iSCSI, Telnet, SSH, NFS, SNMP, WebDAV, CalDAV Windows Access Control List (ACL) Support Scheduled Power On/Off Custom Management UI HTTP/HTTPS Ports Windows ADS Domain Integration
Domain Users login via Samba/AFP/FTP/File Station HDD Management
Deep Sleep for Expansion Unit
HDD Hibernation File System
• EXT4 **Backup Solutions** EXT3 (External Disk Only) 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 FAT (External Disk Only)
 NTFS (External Disk Read Only) SMART Dynamic Bad Sector Mapping Volume Management

Synology Hybrid RAID
Max Volume #: 1024 Utilities Synology Assistant Synology Data Replicator Max Volume #: 1024
 Max ISCSI Target #: 64
 Max ISCSI Target #: 64
 Max ISCSI LUN #: 512
 Volume Type: Basic, IBOD RAID 0, RAID 1, RAID 5, RAID
 S-Spare, RAID 5, RAID 10
 RAID Migration: from 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
 Sto RAID 5+Spare RAID 5 to RAID 6
 Evpand RAID 1, RAID 5, RAID 5 to RAID 6
 Evpand RAID 1, RAID 5, RAID 5 to RAID 6
 ext and RAID 5+Spare or RAID 6 by Adding a Hard
 Drive On the Fly
 Volume Expansion with DX1211

Elie Shazin C canability Support Browsers

Chrome™
Internet Explorer® 7, 8, and 9 Security • FTP over SSL/TLS • IP Auto-Block • Firewall • Encrypted Network Backup over Rsync • HTTPS Connection Firefox[®] Firefox^o
 Safari[®] 4 and 5 (Mac) • Windows XP onward Management DSM Upgrade Email Notification SMS Notification Customized User Quota Mac OS X 10.5 onward Ubuntu 9.04 onward Language 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 Holmine Expansion with Ox1211
 File Sharing Capability
 Max User Account: 4096
 Max Group: 512
 Max Shared Folder: 512
 Max Concurrent Connections (CIFS, FTP, AFP): 1024 Customized User (DDNS Support PPPoE Resource Monitor UPS Management **Environment and Packaging** Environment

RoHS Compliant Installation DVD
 Welcome Note Optional Accessories

Remote Kemote
 Camera License Pack
 Expansion Unit (DX1211) Assembling Kit
 AC Power Cord X2 Package Content • DS3612xs Main Unit

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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- Tested with dual 10GbE connection with Link Aggregation. The performance figures could vary on different environments.
 2. D53612xs supports up to two Synology DX1211s, purchased compatible.
- The actual capacity will differ according to volume types.
 Measured with 12 Western Digital 218 WD2002FYFS hard drive. The figures could vary on different environments.
 User can click and download the following video formats: RM, RMWB, VOB, RV30, RV40, ACS, AMR, WMA3, but not able to play it
 - DX1211 DS3612xs USB Printe DS3612xs Windows ADS Server Router 9



in Photo Station as compressed Flash® video. The music in WAV and AIF format can be streamed, but the metadata (ex: title, album) may not be indexed on the iTunes

IP Camera