Synology

Synology DiskStation DS2411+
High performance NAS Server Scales up to 24 Drives for Enterprise Users

Synology® DiskStation DS2411+ offers a high-performance, scalable, and full-featured network attached storage solution that meets the needs of businesses that requires 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 DS2411+ is backed with Synology's 3-year limited warranty.

Highlights

- Average 165 MB/sec Writing, 195 MB/sec Reading[1]
- Scale up to 72TB with Synology DX1211
- VMware / Citrix / Hyper-V Compliance
- 2 LAN with Failover and Link Aggregation Support
- Fit to Business Environment
- Rich Business Applications

High Performance, High Data Availability

With the Link Aggregation enabled, Synology DS2411+ delivers an average 165 MB/sec writing speed under RAID 5 configuration in a Windows environment, and 195 MB/sec reading. 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. Businesses need a strong foundation to face mission-critical tasks so the Synology DS2411+ delivers high-performance with high data availability ensuring access when it's needed.

Fit to Business Environment

Windows ADS integration allows the Synology DS2411+ to quickly and easily fit in an existing business network environment with no need to recreate users' accounts on the Synology DS2411+. The User Home feature minimizes the administrator's effort in creating a private shared folder for a large amount of users.

Windows ACL support on DS2411+ provides much finer-grained access control and efficient privilege settings, allowing IT staffs to set up privileges to files and folders on DS2411+ 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.

iSCSI and Virtualization Ready

With the iSCSI support in DSM 3.1, the Synology DS2411+ 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.

Robust & Affordable Scalability Up to 72 TB

When the storage capacity of the Synology DS2411+ is nearing its limits, it can easily be expanded by the Synology DX1211. The Synology DX1211 securely connects to the Synology DS2411+ via an Infiniband cable to carry 12 Gb/s SATA signal, with specially-designed connectors on both ends to ensure maximum throughput. The Synology DX1211 can directly expand the existing storage on the Synology DS2411+ to a maximum 72 TB capacity.

Full-featured Business Applications

The Synology DS2411+ runs on the renowned operating system, Synology DiskStation Manager, offering comprehensive applications and features designed specifically for SMBs. Comprehensive network protocol support assures seamless file sharing across Windows, Mac, and Linux platforms.

Internet file access is simplified by the encrypted FTP server and the web-based file explorer, Synology File Station. HTTPS, 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 DS2411+ 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 DS2411+. Synology Surveillance Station offers a centralized interface to safeguard the office environments by deploying IP cameras throughout the network. The built-in Mail Station turns a Synology DS2411+ into a mail server with only few steps of installation and the USB printer sharing capability minimizes businesses' printing cost by sharing printing resources throughout the office.

Energy Efficient Design

Synology DiskStations are designed and developed with energy efficiency in mind. Compared with the average PC counterparts, Synology DiskStations consume 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.
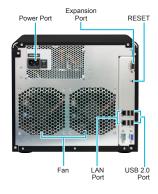
DS2411+   DX1211

CONNECTIONS & BUTTONS

LED Indicators
Power Button

HDD Tray

Power Port
Expansion Port
RESET

Fan
LAN Port
USB 2.0 Port

Technical Specifications

Hardware

- CPU: Dual Core 1.8 GHz, with floating point
- RAM Size: DDR2 1GB
- Internal HDD[4]: 12X 3.5" or 2.5" SATA/SSD
- External HDD Interface: 4X USB ports
- Expansion Interface: 1X Expansion port
- Size: 270mm X 300mm X 340mm
- Weight: 9.93kg
- LAN: 2X Gigabit

- Wireless Support[5]
- Fan: 2X (120mm X 120mm)
- Wake on LAN
- Power Recovery
- AC Input Power Voltage: 100V to 240V
- Power Frequency: 50Hz to 60Hz, Single Phase
- Max Internal Capacity: 36TB (10X 3TB hard drives)[6]
- Operating Temperature: 5°C to 35°C (40°F to 95°F)

- 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[7]: 146.3 W (Access); 40.7 W (HDD Hibernation)
- Certification: FCC Class B, CE Class B, BSMI Class B

Applications

File Station

FTP Server
- Bandwidth Control
- Custom FTP Passive Port Range
- Anonymous FTP
- Transfer Log

Mail Server
- Supported Mail Server Protocol : POP3, SMTP, IMAP

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

Surveillance Station
- Default IP cam #: 1
- MAX IP cam # (licenses required): 20[8]

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[9]: 3GP, 3GP, ASF, AVI, DAT, DivX, FLV, M4V, MOV, MP4, MPEG, MPG, QT, WMV, XviD, RM, RMVB, VOB, RV30, RV40, AC3, AMR, WMA3

Download Station
- Supported Download Protocols: BT/HTTP/FTP/NZB/eMule
- Custom BitTorrent Port Range
- BitTorrent / eMule Bandwidth Control

Audio Station
- Supported Audio Format: (USB Mode) AAC, FLAC, M4A, MP3, Ogg Vorbis, WMA, WMA VBR; (Streaming Mode) MP3, M4A, M4B
- Supported Playlist Format: M3U, WPL
- Internet Radio: SHOUTcast, Radioio

DLNA/UPnP Media Server
- 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, M2T, M2TS, M4V, MKV, MP4, MPEG1, MPEG2, MPEG4, MTS, MOV, QT, SWF, TP, TRP, TS, VOB, WMV, XviD, RV30, RV40, AC3, AMR, 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, rw2, dng, x3f)

- Supported Subtitles Format: srt, psb, smi, ass, ssa, sub, idx, ifo

iTunes Server
- Supported Audio Format[10]: MP3, M4A, M4P, WAV, AIF
- Supported Video Format: M4V, MOV, MP4
- Supported Playlist Format: M3U, WPL

Printer Server[11]
- Max Printer #: 2
- Printing Protocols: LPR, CIFS, AppleTalk, AirPrint, Multi Functional Print Server

Synology Packages
- Mail Station 2
- Squeezebox Server
- Webalizer
- phpMyAdmin
- Time Backup
- HASP

iPhone/Android Applications
- DS photo+
- DS audio
- DS cam
- DS file (iPhone only)
- DS finder (iPhone only)

General Specifications

Networking Protocols
- CIFS, AFP, FTP, iSCSI, Telnet, SSH, NFS, SNMP

File System
- EXT4
- EXT3 (External Disk Only)[12]
- FAT (External Disk Only)[12]
- NTFS (External Disk Read Only)[12]

Volume Management
- Synology Hybrid RAID
- Max Volume #: 512
- iSCSI Target: 32
- iSCSI LUN: 256
- Volume Type: Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 5+Spare, RAID 6, 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 5 to RAID 5+Spare, RAID 5 to RAID 6
- Expand RAID 1, RAID 5, RAID 5+Spare or RAID 6 with Larger Hard Drives

File Sharing Capability
- Max User Account: 2048
- Max Group: 256
- Max Shared Folder: 256
- Max Concurrent Connections (SAMBA, FTP, AFP): 512

Windows ADS Domain Integration
- Domain Users login via Samba/AFP/FTP/File Station

Backup Solutions
- Network Backup
- Local 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

Management
- DSM Upgrade
- Email Notification
- SMS Notification
- Customized User Quota
- DDNS Support
- PPPoE
- Resource Monitor
- 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 Download Redirector

Support Browsers
- Internet Explorer 7/8/9
- Firefox 3.5/3.6
- Safari 4/5 (Mac)
- Chrome

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
- Windows Mobile (IE Mobile or Opera 9.0 onward)
- Symbian OS 9.1, S60 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

Environment and Packaging

Environment
- RoHS Compliant

Package Content
- DS2411+ Main Unit
- Installation Disc

- Welcome Note
- Assembling Kit
- AC Power Cord
- 2M RJ-45 LAN Cable X2

Optional Accessories
- Remote
- Camera License Pack

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1. With Link Aggregation enabled. The performance figures could vary on different environments.
2. Purchase separately.
3. DS2411+ supports up to one Synology DX1211.
4. Hard drive not included.
5. Wireless dongles not included. Please check http://www.synology.com/ for supported wireless dongles.
6. The actual capacity will differ according to volume types.
7. Measured with 12 Western Digital 3TB WD30EZRS hard drive. The figures could vary on different environments.
8. 1 free license to install 1 IP camera. Additional licenses can be purchased to expand the license quota.
9. 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.
10. The music in WAV and AIF format can be streamed, but the metadata (ex: title, album) may not be indexed on the iTunes.
11. For Mac users, DS2411+ supports PostScript USB printers only.
12. Primary partition only.

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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Networking

External Disk
DS2411+
USB Printer
DS2411+
Wireless Router
Windows ADS Server
PC / Mac / Linux
PC / Mac / Linux
IP Camera