DiskStation DS218+

1	Status indicator
2	LAN indicator
3	Drive status indicator
4	USB 3.0 port
5	USB copy button
6	Power button and indicator
7	Fan
8	USB 3.0 port
9	Reset button
10	eSATA port
11	1GbE RJ-45 port
12	Kensington Security Slot 13
13	Power port

Compact yet powerful storage solution

Equipped with a dual-core processor and AES-NI hardware encryption engine, DS218+ delivers exceptional file transfer speeds. Supporting real-time 4K video streaming, DS218+ is ideal not only for protecting critical data but for storing ultra-high definition media contents as well.

CPU	Ultra Performance	Encryption	Transcoding
Dual-core up to 2.5 GHz	113 MB/s encrypted reading, 112 MB/s encrypted writing	AES-NI hardware encryption	4K Ultra HD video transcoding

Next-generation file system for better data protection

The Btrfs file system introduces advanced storage technologies and optimized snapshots to prevent data corruption and reduce maintenance overhead. While ensuring high-level data integrity, it also offers flexible, efficient data protection and recovery tools.

Flexible Shared Folder / User Quota System provides comprehensive quota control on user accounts and shared folders

Snapshot Replication provides schedulable and storage capacity-saving data protection with 1,024 shared folder backups and 65,000 system-wide snapshots
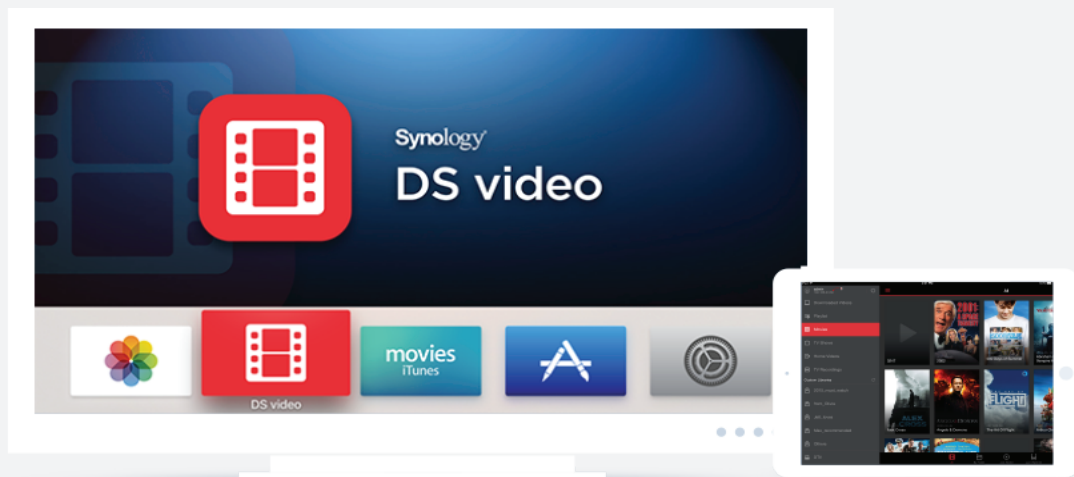
File- or folder-level data restoration accelerates data recovery, providing more flexibility for businesses

Automatic file self-healing detects and recovers corrupted files without user intervention

Learn more about the benefits of using Btrfs

4K Multimedia Server

Access and stream your 4K media content anytime and anywhere. DS218+ supports 4K H.264/H.265 online transcoding via Video Station and DS video, allowing 4K videos to be converted and played on the fly on other computers, smartphones, and media players that originally do not support Ultra HD formats. Learn more

Synchronize files across your devices

Cloud Station Suite provides real-time data synchronization across all your devices and other Synology NAS. "Intelliversioning" keeps the most important file versions to better utilize storage space. Learn more

Cloud Station Sharesync

Cloud Station Drive

Cloud Station Server

DS Cloud

Digital asset protection

Powered by Synology DiskStation Manager (DSM), Synology NAS offers advanced security measures to protect against sudden data loss and potential security holes.

Learn more

Security Advisor

Analyzes system settings, password strength, network preferences, and removes any possible malware.

AppArmor

A kernel-level enhancement that blocks malicious programs from accessing unauthorized system resources.

AES 256-bit encryption

Encrypt shared folders and network data transmission to keep data from unauthorized access.
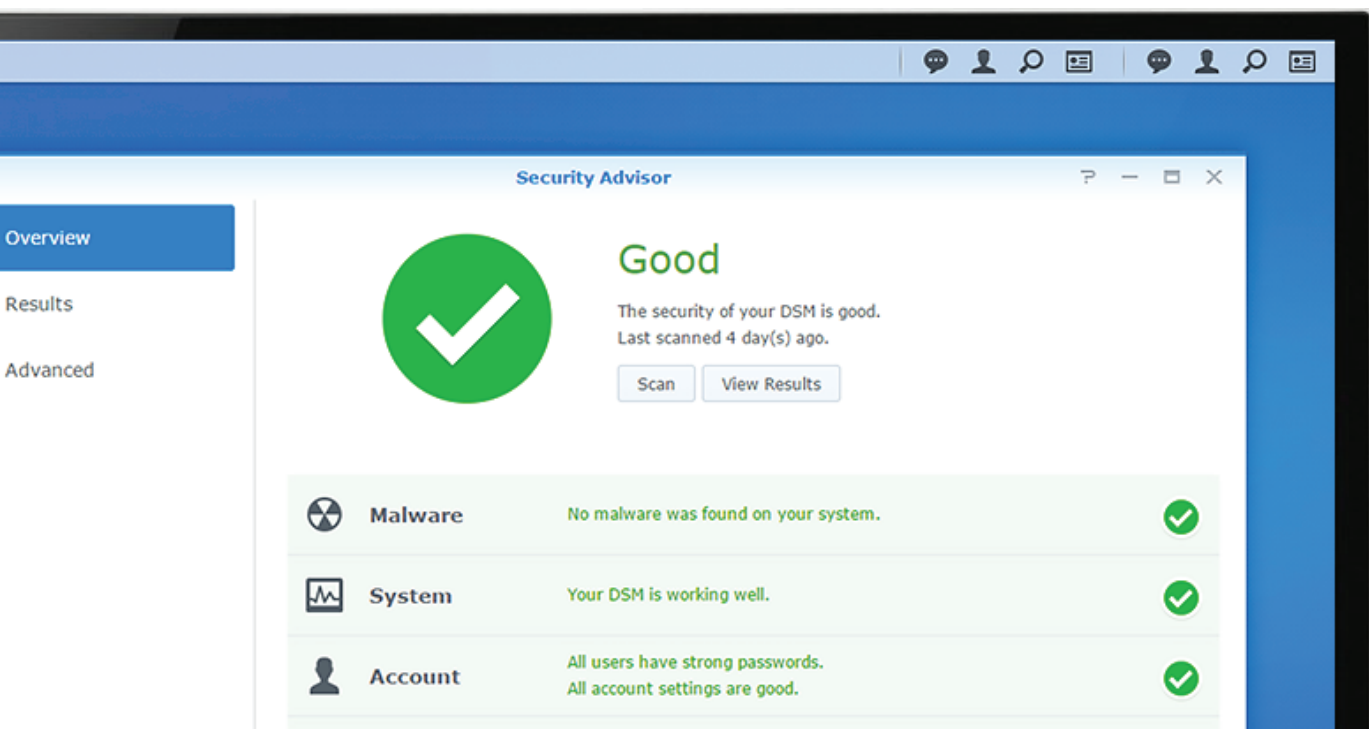
2-step verification

Prevent others from logging in to your DSM by generating a one-time password (OTP) on your mobile device.
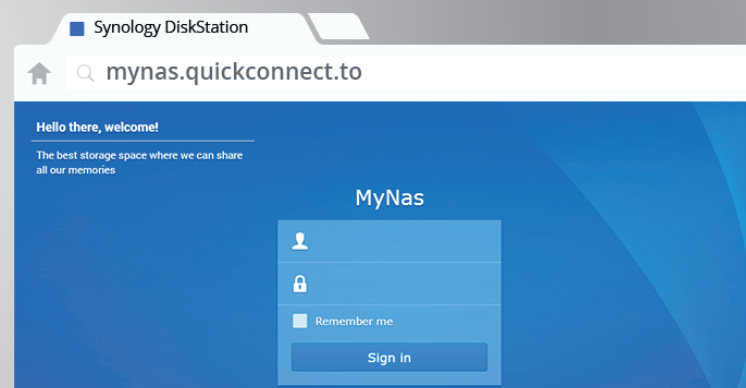
Trust Level

Customize the trust level in Package Center to avoid installing packages from untrusted sources, safeguarding your NAS from unknown or tampered package files.

Security Advisor ? — □ ✕

Overview

Results

Advanced

✓ **Good**

The security of your DSM is good.
Last scanned 4 day(s) ago.

[Scan] [View Results]

☢ **Malware**   No malware was found on your system.   ✓

⌇ **System**   Your DSM is working well.   ✓

👤 **Account**   All users have strong passwords.
All account settings are good.   ✓

Easy file access with QuickConnect

Access files on your Synology NAS over the Internet without the hassle of setting up port forwarding rules, DDNS, or other complicated network settings. QuickConnect allows you to connect via a secure, customizable address, so that you can instantly access media and work files on any Internet -connected device with no additional charge.

Synology DiskStation

🏠 Q mynas.quickconnect.to

Hello there, welcome!

The best storage space where we can share all our memories

MyNas

👤

🔒

☐ Remember me

[Sign in]

DiskStation DS218+

All-around storage solution optimized to safeguard your data

Hardware Specifications

CPU

CPU Model	Intel Celeron J3355
CPU Architecture	64-bit
CPU Frequency	Dual Core 2.0 burst up to 2.5 GHz
Hardware Encryption Engine (AES-NI)	✔
Hardware Transcoding Engine	H.264 (AVC), H.265 (HEVC), MPEG-2 and VC-1; maximum resolution: 4K (4096 x 2160); maximum frame rate per second (FPS): 30

Memory

System Memory	2 GB DDR3L
Memory Module Pre-installed	2GB (1 x 2GB)
Total Memory Slots	2
Memory Expandable up to	6 GB (2 GB + 4 GB)

Storage

Drive Bays	2
Compatible Drive Type* (See all supported drives)	3.5" SATA HDD 2.5" SATA HDD 2.5" SATA SSD
Maximum Internal Raw Capacity	24 TB (12 TB drive x 2) (Capacity may vary by RAID types)
Maximum Single Volume Size	108 TB
Hot Swappable Drive	✔

Notes	• "Compatible drive type" indicates the drives that have been tested to be compatible with Synology products. This term does not indicate the maximum connection speed of each drive bay. • The maximum single volume size is not directly related to the maximum raw capacity. (Learn more) • Expansion of the internal volume is only supported if the combined single volume size does not exceed the maximum limit of 108TB.

External Ports

RJ-45 1GbE LAN Port	1
USB 3.0 Port	3
eSATA Port	1
Copy Button	✔

File System

Internal Drives	• Btrfs • EXT4
External Drives	• Btrfs • EXT4 • EXT3 • FAT • NTFS • HFS+ • exFAT*
NOTES	exFAT Access is purchased separately in Package Center.

Appearance

Size (Height x Width x Depth)	165 mm x 108 mm x 232.2 mm
Weight	1.30 kg

Others	
System Fan	92 mm x 92 mm x 1 pcs
Fan Speed Mode	•Full-Speed Mode •Cool Mode •Quiet Mode
Brightness adjustable front LED indicators	✔
Power Recovery	✔
Noise Level*	19.3 dB(A)
Scheduled Power On/Off	✔
Wake on LAN/WAN	✔
Power Supply Unit / Adapter	60W
AC Input Power Voltage	100V to 240V AC
Power Frequency	50/60 Hz, Single Phase
Power Consumption*	17.23 W (Access) 5.4 W (HDD Hibernation)
British Thermal Unit	58.79 BTU/hr (Access) 18.43 BTU/hr (HDD Hibernation
Environment Temperature	
Operating Temperature	5°C to 40°C (40°F to 104°F)
Storage Temperature	-20°C to 60°C (-5°F to 140°F)
Relative Humidity	5% to 95% RH
Certification	•EAC •FCC •VCCI •CE •CCC •BSMI •RCM •KC

Warranty	2 Years
Notes	•Power consumption is measured when fully loaded with Western Digital 1TB WD10EFRX hard drive(s). •Noise Level Testing Environment: Fully loaded with Seagate 2TB ST2000VN000 hard drive(s) in idle; Two G.R.A.S. Type 40AE microphones, each set up at 1 meter away from the Synology NAS front and rear; Background noise: 16.49-17.51 dB(A); Temperature: 24.25-25.75°C; Humidity: 58.2-61.8%

DSM Specifications

Networking Protocols	•CIFS •AFP •NFS •FTP •WebDAV •CalDAV •iSCSI •Telnet •SSH •SNMP •VPN (PPTP, OpenVPN, L2TP)
Windows AD Domain Integration	Domain users login via SMB/NFS/AFP/FTP/ File Station, LDAP integration
HDD Management	•HDD Hibernation •S.M.A.R.T. •Dynamic Bad Sector Mapping
Security	Firewall, encrypted shared folder, SMB encryption, FTP over SSL/TLS, SFTP, rsync over SSH, login auto block, Let's Encrypt support, HTTPS (Customizable cipher suite)
Supported Clients	•Windows 7 and 10 •Mac OS X 10.11 onward

Supported Browsers	• Chrome • Firefox • Internet Explorer 10 onwards • Safari 10 onwards • Safari (iOS 10 onwards) • Chrome (Android 6.0 onwards)
Supported Language	English, Deutsch, Français, Italiano, Español, Dansk, Norsk, Svenska, Nederlands, Русский, Polski, Magyar, Português do Brasil, Português Europeu, Türkçe, Český,

Storage Management

Maximum Internal Volume Number	256
Maximum iSCSI Target Number	128
Maximum iSCSI LUN	256
iSCSI LUN Clone/Snapshot, Windows ODX	✔
SSD TRIM	✔
Supported RAID Type	• Synology Hybrid RAID
	• Basic
	• JBOD
	• RAID 0
	• RAID 1
RAID Migration	• Basic to RAID 1
Volume Expansion with Larger	• Synology Hybrid RAID
HDDs	• RAID 1
Volume Expansion by Adding a HDD	• Synology Hybrid RAID

File Sharing Capacity

Maximum Local User Accounts	2048
Maximum Local Groups	256
Maximum Shared Folder	256
Maximum Shared Folder Sync Tasks	4
Maximum Concurrent CIFS/AFP/FTP Connections	500
Maximum Concurrent CIFS/AFP/FTP Connections (with RAM expansion)	1500
Windows Access Control List (ACL) Integration	✔
NFS Kerberos Authentication	✔
Log Center	✔
Syslog Events per Second	400

Add-on Packages (learn more about the complete add-on package list)	
Antivirus by McAfee (Trial)	✓
Central Management System	✓
Chat	✓
Maximum Users	1000
Notes	•The number of concurrent HTTP connections for Chat was configured to the maximum.
	•CPU and RAM usage were both under 80% when the number of maximum users was reached.
	•For tested models with expandable memory, the maximum amount of RAM was installed.
Cloud Station Server	✓
Maximum Number of Concurrently Connected Devices	500
Maximum Number of Concurrently Connected Devices (with RAM expansion)	1500
Maximum Number of Hosted Files (btrfs)	1,000,000
Maximum Number of Hosted Files (ext4)	1,000,000
Notes	•The maximum number of concurrently connected devices refers to the maximum number of devices that can remain connected at the same time.
	•The maximum number of hosted files refers to the maximum number of files that can be indexed and hosted by the Cloud Station Server service. RAM expansion was not used during testing.
	•Non-encrypted shared folders were used during the aforementioned testing.
Document Viewer	✓
Download Station	✓
Maximum Concurrent Download Tasks	✓ 80
Drive	
Maximum Number of Hosted Files	500,000
Maximum Number of Concurrent Connections for PC Clients	✓ 450

Notes	•The Btrfs file system was used for the purpose of testing. The maximum number of hosted files refers to the maximum number of files that can be indexed and hosted by the Drive service. •The maximum number of concurrent connections refers to the maximum number of connections that can be maintained when the maximum number of hosted files was reached. •For tested models with expandable memory, the maximum amount of RAM was installed. •Non-encrypted shared folders were used during the aforementioned testing.
exFAT Access (optional)	✓
MailPlus / MailPlus Server	✓
Free Email Accounts Recommended	5 (Licenses required for additional accounts)
MailPlus Client Number Maximum Server	Up to 45 (Btrfs) / 45 (ext4)
Performance	181,000 (Btrfs) / 194,000 (ext4) emails per day, approx. 5.5 GB (Btrfs) / 5.9 GB (ext4)
Notes	•The CPU and RAM usages were both under 80% when testing recommended client numbers. •For tested models with expandable memory, the maximum amount of RAM was installed. •Read-write SSD cache was enabled in 5-bay (and above) NAS models with 2 SSDs units installed. •The performance of the mail system will slightly decrease in high-availability mode due to data synchronization between the two servers. •Functions that were enabled in all of the tests above: anti-spam, anti-virus, DNSBL, greylist, content scan, full-text search (English only).
Media Server	✓
DLNA Compliance	✓
Moments	✓
Facial recognition	✓
Subject recognition	✓
Office	✓
Maximum Users Notes	400 •Multiple files were opened for testing and each file was edited by 30 users simultaneously. •CPU and RAM usage were both under 80% when the number of maximum users was reached. •For tested models with expandable memory, the maximum amount of RAM was installed. •Client performance may affect maximum simultaneous editing users. Client PCs used for testing: Intel Core i3-3220 / 8GB RAM Snapshot Replication
Maximum Snapshots per	✓
Shared Folder	1024
Maximum of system snapshots	65536
Surveillance Station	✓

Maximum IP cam (Licenses required)	25 (including 2 Free License) (See All Supported IP Cameras)
Total FPS (H.264)*	750 FPS @ 720p (1280x720) 600 FPS @ 1080p (1920×1080) 350 FPS @ 3M (2048x1536) 250 FPS @ 5M (2591x1944) 120 FPS @ 4K (3840x2160)
Total FPS (H.265)*	750 FPS @ 720p (1280x720) 750 FPS @ 1080p (1920×1080) 450 FPS @ 3M (2048x1536) 250 FPS @ 5M (2591x1944) 200 FPS @ 4K (3840x2160)
Total FPS (MJPEG)*	450 FPS @ 720p (1280x720) 250 FPS @ 1080p (1920×1080) 160 FPS @ 3M (2048x1536) 130 FPS @ 5M (2591x1944)
Notes	Surveillance Station throughput is tested with Axis network camera, using continuous recording with live view from Surveillance Station and motion detection by camera. Live view and recording are sharing the same stream from the camera.
Video Station	✓
Video Transcoding	4K Group 1 (See more)
Maximum Transcoding Channel Number	2 channel, 30 FPS @ 4K (4096 x 2160), H.264 (AVC)/H.265 (HEVC) or 2 channel, 30 FPS @ 1080p (1920×1080), H.264 (AVC)/H.265 (HEVC)/MPEG-2/VC-1
Virtual Machine Manager	✓
Recommended Virtual Machine Instances	2 (Learn more)
Recommended Virtual DSM Number (Licenses required)	2 (including 1 Free License)
Notes	•Virtual Machine Manager is not supported on hosts running Synology High Availability. •The specifications vary depending on system configuration and memory size.
VPN Server	✓
Maximum Connections	20
Environment & Packaging	
Environment	RoHS Compliant
Packaging Content	•Main Unit X 1 •Accessory Pack X 1 •AC Power Adapter X 1 •AC Power Cord X 1 •RJ-45 LAN Cable X 1 •Quick Installation Guide X 1
Optional Accessories	•Surveillance Device License Pack •D3NS1866L-4G DDR3 non-ECC SO-DIMM •VS360HD •VS960HD