

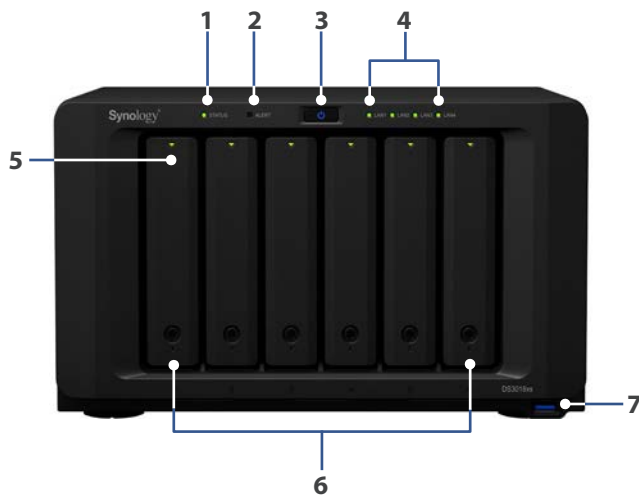
DiskStation

DS3018xs

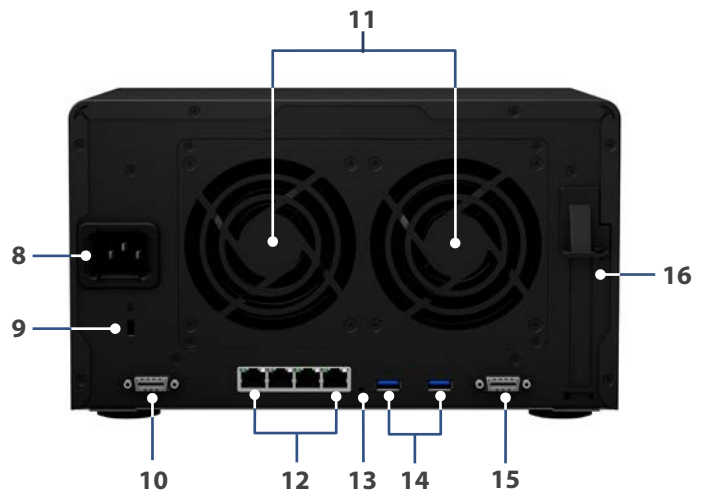


Hardware Overview

Front



Rear



1	Status indicator	2	Alert indicator	3	Power button	4	LAN indicator
5	Drive status indicator	6	Drive tray	7	USB 3.0 port	8	Power port
9	Kensington Security Slot	10	Expansion port	11	Fan	12	1GbE RJ-45 port
13	RESET button	14	USB 3.0 port	15	Expansion port	16	PCIe expansion slot

Technical Specifications

Hardware

CPU	Intel Pentium D1508 dual-core 2.2GHz, Turbo Boost up to 2.6GHz
Hardware encryption engine	Yes (AES-NI)
Memory	8GB DDR4 SO-DIMM (expandable up to 32 GB)
Compatible drive type	<ul style="list-style-type: none"> o 6 x 3.5" or 2.5" SATASSD / HDD (drives not included) o 2 x M.2 2280/2260/2242 SATA SSD³ (drives not included)
External port	<ul style="list-style-type: none"> o 3 x USB 3.0 ports o 2 x expansion ports

Size (HxWxD)	166 x 282 x 243 mm
Weight	5.2 kg
LAN	4 x 1GbE (RJ-45)
Wake on LAN/WAN	Yes
PCIe 3.0 slot	<ul style="list-style-type: none"> o 1 x 8-lane x8 slot o 10GbE network interface cards support o M.2 SSD adapter card support
Scheduled power on/off	Yes
System fan	2 (92 x 92 x 25 mm)
AC input power voltage	100V to 240V AC
Power frequency	50/60Hz, single phase
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
Maximum operating altitude	3,048 m (10,000 ft)

General DSM Specification

Networking protocol	SMB, AFP, NFS, FTP, WebDAV, CalDAV, iSCSI, Telnet, SSH, SNMP, VPN (PPTP, OpenVPN™, L2TP)
File system	<ul style="list-style-type: none"> o Internal: Btrfs, ext4 o External: Btrfs, ext4, ext3, FAT, NTFS, HFS+, exFAT⁴
Supported RAID type	RAID Group, Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 6, RAID 10, RAID F1
Storage management	<ul style="list-style-type: none"> o Maximum single volume size: 108TB o Maximum internal volume: 1,024 o Maximum iSCSI target: 64 o Maximum iSCSI LUN: 512 o iSCSI LUN clone/snapshot support
SSD cache	<ul style="list-style-type: none"> o Read-write cache support o M.2 SATA SSD support
File sharing capability	<ul style="list-style-type: none"> o Maximum local user account: 16,000 o Maximum local group: 512 o Maximum shared folder: 512 o Maximum concurrent SMB/NFS/AFP/FTP connection: 2,000
Privilege	Windows Access Control List (ACL), application privilege
Directory service	Windows® AD integration: Domain users login via SMB/NFS/AFP/FTP/File Station, LDAP integration
Virtualization	VMware vSphere® 6, Microsoft Hyper-V®, Citrix®, OpenStack®
Security	Firewall, Encryption shared folder, SMB encryption, FTP over SSL/TLS, SFTP, Rsync over SSH, Login auto block, Let's Encrypt support, HTTPS (Customizable cipher suite)
Supported client	Windows 7 and 10, Mac OS X 10.11 onwards
Supported browser	Chrome®, Firefox®, Internet Explorer® 10 onwards, Safari® 10 onwards; Safari (iOS 10 onwards), Chrome (Android™ 6.0 onwards) on tablets
Interface Language	English, Deutsch, Français, Italiano, Español, Dansk, Norsk, Svensk, Nederlands, Pycck11t11, Polski, Magyar, Português do Brasil, Português Europeu, Türkçe, Český, 日本語, 한국어, 繁體中文, 简体中文

Packages and Applications

File Station	Virtual drive, remote folder, Windows ACL editor, compressing/extracting archived files, bandwidth control for specific users or groups, creating sharing links, transfer logs
FTP Server	Bandwidth control for TCP connections, custom FTP passive port range, anonymous FTP, FTP SSL/TLS and SFTP protocol, boot over the network with TFTP and PXE support, transfer logs
Universal Search	Offer global search into applications and files
Hyper Backup	Support local backup, network backup, and backup data to public clouds
Active Backup for Server	Centralize data backup for Windows and Linux servers without client installation
Backup tool	DSM configuration backup, macOS Time Machine support, Cloud Station Backup Shared folder sync - maximum task number: 16
Cloud Station Suite	Sync your data between multiple platforms by installing the client utilities on Windows, Mac, Linux, Android and iOS devices, while retaining up to 32 historical versions of files Maximum concurrent file transfer: 2,000
Cloud Sync	One or two-way synchronization with public cloud storage providers including Amazon Drive, Amazon S3-compatible storage, Baidu cloud, Box, Dropbox, Google Cloud Storage, Google Drive, hubiC, MegaDisk, Microsoft OneDrive, OpenStack Swift-compatible storage, WebDAV servers, Yandex Disk
Surveillance Station	Maximum IP camera: 75 (total of 2,250 FPS at 720p, H.264) (Includes two free camera licenses; additional cameras require the purchasing of additional licenses)
Virtual Machine Manager	Deploy and run various virtual machines on Synology NAS, including Windows, Linux, or Virtual DSM
High Availability Manager	Reduce service downtime by setting up two identical NAS into one high-availability cluster

Snapshot Replication	<ul style="list-style-type: none"> o Maximum of replications: 64 o Maximum of shared folder snapshots: 1,024 o Maximum of system snapshots: 65,536
Active Directory Server	Provide a flexible and cost-effective domain controller solution
CMS	Provide a single interface to manage and monitor multiple Synology NAS
VPN Server	Maximum connection: 30, supported VPN protocol: PPTP, OpenVPN™, L2TP/IPSec
MailPlus Server	Secure, reliable, and private mail solution with high-availability, load balancing, security and filtering design (Includes 5 free email account licenses; additional accounts require the purchasing of additional licenses)
MailPlus	Intuitive webmail interface for MailPlus Server, customizable mail labels, filters, and user interface
Collaboration Suite	<ul style="list-style-type: none"> o Chat maximum user: 2,000 o Office maximum user: 400, maximum simultaneous editing user: 80 o Calendar: support CalDAV and access via mobile devices
Note Station	Rich-text note organization and versioning, encryption, sharing, media embedding and attachments
Storage Analyzer	Volume and quota usage, total size of files, volume usage and trends based on past usage, size of shared folders, largest/most/least frequently modified files
Security Advisor	Malware detection/removal, user account/password, network, system-related security scan
Antivirus Essential	Full system scan, scheduled scan, white list customization, virus definition auto update
Download Station	Supported download protocols: BT, HTTP, FTP, NZB, eMule, Thunder, FlashGet, QQDL Maximum concurrent download task: 80
Web Station	Virtual host (up to 30 websites), PHP / MariaDB®, third-party applications support
Other packages	Video Station, Photo Station, Audio Station, DNS Server, RADIUS Server, iTunes® Server, Log Center, third-party packages available on Package Center
iOS/Android™ applications	DS audio, DS cam, DS cloud, DS file, DS finder, DS get, DS note, DS photo, DS video, MailPlus
Windows Phone® applications	DS audio, DS file, DS finder, DS get, DS photo, DS video

Environment and Packaging

Environment safety	RoHS compliant
Package content	<ul style="list-style-type: none"> o DS3018xs main unit x 1 o Quick Installation Guide x 1 o Accessory pack x 1 o AC power cord x 1 o RJ-45 LAN cable x 2
Optional accessories	<ul style="list-style-type: none"> o 16 GB DDR4-2133 ECC SO-DIMM (RAMEC2133DDR4SO-16G) o Synology E10G17-F2 / E10G15-F1 10Gbps Ethernet adapters o Synology M2D17 M.2 SSD adapter card o Synology Expansion Unit DX1215 o Synology VS360HD o Surveillance Device License Pack o MailPlus License Pack
Warranty	5 years

*Model specifications are subject to change without notice. Please refer to www.synology.com for the latest information.

1. Performance figures may vary depending on environment, usage, and configuration.
2. DS3018xs supports up to two Synology DX1215, sold separately.
3. DS3018xs supports dual M.2 SSD through M2D17 adapter card, sold separately.
4. exFAT Access is purchased separately in Package Center.