

Knowledge Center

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DS223 Product Manual

Chapter 1: Before You Start

Thank you for purchasing this Synology product! Before setting up your new Synology NAS, please check the package contents to verify that you have received the items below. Also, make sure to read the safety instructions carefully to avoid harming yourself or damaging your Synology NAS.

Notes:

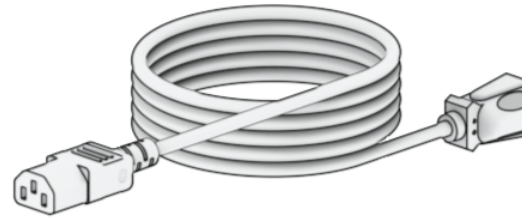
All images below are for illustrative purposes only, and may differ from the actual product.

1.1 Package contents

Contact your reseller if your package is missing any of the below contents:

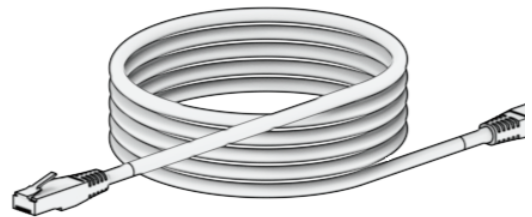
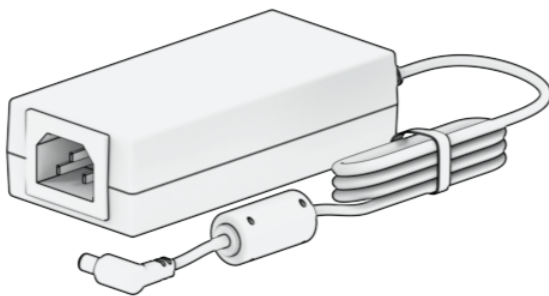
Main unit x 1

AC power cord x 1

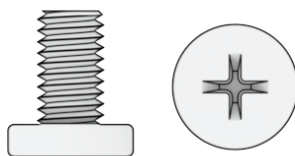


AC power adapter x 1

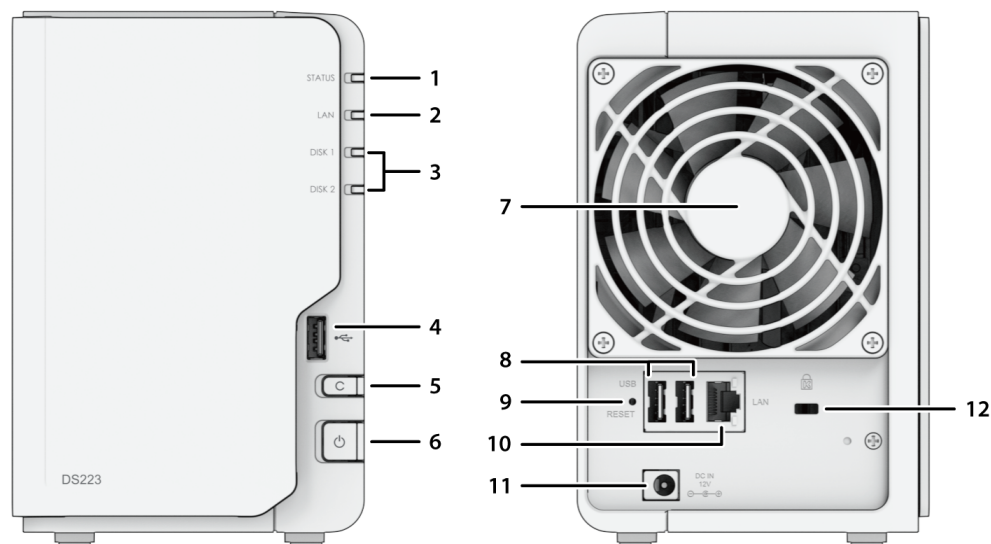
RJ-45 LAN cable x 1



Screws for 2.5" drives x 10



1.2 Synology DS223 at a glance



No.	Name	Description
1	STATUS Indicator	Displays the status of the system. For more information see " System modes and LED indicators ".
2	LAN Indicator	Displays the status of the network connection. For more information, see " Other LED indicators ".
3	Drive Status Indicator	Displays the status of drive. For more information, see " Other LED indicators ".
4	USB 3.2 Gen 1 Port	Connect external drives or other USB devices to the Synology NAS here.
5	Copy Button	Lights up when you connect a USB device (e.g. digital camera, USB storage device, etc.). Press the copy button to copy data from the connected USB device to internal drives.
6	Power Button	<ol style="list-style-type: none"> 1. Press to power on your Synology NAS. 2. To power off your Synology NAS, press and hold until you hear a beep sound and the Power LED starts flashing.

7	Fan	Disposes of excess heat and cools the system. If the fan malfunctions, the Synology NAS will emit a beeping sound.
8	USB 3.2 Gen 1 Port	Connect external drives or other USB devices to the Synology NAS here.
9	RESET Button	<ol style="list-style-type: none"> 1. Mode 1: Press and hold until you hear a beep sound, then release the button immediately to restore the IP address, DNS server, and password for the admin account to default. 2. Mode 2: Press and hold until you hear a beep, release the button immediately, then press and hold again within 10 seconds to reinstall DiskStation Manager (DSM). <p>For detailed information on how to reset your Synology NAS, please refer to this article.</p>
10	LAN Port	Connect network cable here.
11	Power Port	Connect power cord here.
12	Kensington Security Slot	Attach a Kensington security lock here.

1.3 System modes and LED indicators

System modes definitions

There are 7 system modes in Synology NAS. The System modes and their definitions are as below:

System mode	Definition
Powering on	Synology NAS is powering on when you press the power button or restarting when you run operations in DSM. During the boot up process, the device also performs hardware initialization, such as hardware reset or BIOS initialization.

Shutting down	Synology NAS is shutting down as a result of pressing power button or operation in DSM.
DSM not ready	DSM is not ready for use. This could either be: Synology NAS is powered on, but DSM is not properly installed. Synology NAS is currently powering on and initializing services necessary for DSM to fully function. The attached UPS device has insufficient power; DSM stops all services to prevent data loss (enters safe mode).
DSM is ready for use	DSM is fully functioning, and users can sign in.
Hibernation	Synology NAS has been idle for a while and is now in Hibernation mode.
Application	Certain packages/services (e.g., USB Copy and Find my service) while in operation will control the actions of the LED. After the operation is complete, the LED indicator return to its normal state.
Powered off	Synology NAS is powered off.

Identify System Modes

You can identify the system mode through the POWER and STATUS LED indicators. Please refer to the table below for more details.

System Mode	POWER LED	STATUS LED	
	Blue	Green	Orange
Powering on	Blinking	Off	Off
Shutting down	Blinking	Static	Off/Static
DSM not ready	Static	Blinking	Off/Blinking

DSM is ready for use	Static	Static	Off/Static
Hibernation	Static	Off	Off/Static
Application	Static	Switching	
Powered off	Off	Off	Off

Notes:

1. If the **STATUS LED** remains static orange or continuously blinks orange, this indicates there are system errors such as fan failure, system overheating, or volume degrade. Please sign in to DSM for detailed information.

Transitions between System Modes

To better understand the transition between system modes, please refer to the examples below:

Powered on with no DSM installed:

Powered off > Powering on > DSM not ready

Powered on with DSM installed:

Powered off > Powering on > DSM not ready > DSM is ready for use

Entering hibernation then waking up from hibernation:

DSM is ready for use > In hibernation > DSM is ready for use

Shutdown:

DSM is ready for use > Shutting down > Powered off

Power failure with UPS attached:

DSM is ready for use > DSM not ready (due to power failure, DSM enters safe mode) > Shutting down > Powered off > Powering on (power has recovered, DSM will reboot) > DSM not ready > DSM is ready for use

1.4 Other LED definitions

LED Indicator	Color	Status	Description
Drive status	Green	Static	Drive ready and idle
		Blinking	Accessing drive
	Orange ¹	Static	Locating drive
			Drive deactivated by user
			Port disabled ²
			Drive health status is Critical Failing
	Off		No internal Drive
LAN	Green	Static	Network connected
		Blinking	Network active
	Off		No network
USB Copy	Green	Static	Device detected
		Blinking	Copying data
	Off		No device connected

Notes:

1. When the drive LED indicator is orange, we recommend you sign in to DSM and go to **Storage Manager > HDD/SSD** for more information.
2. Please try to restart your Synology NAS or re-insert the drives, then run the HDD/SSD manufacturer's diagnostic tool to check the health status of the drives. If you can sign in to DSM, please run the built-in S.M.A.R.T. test

to scan the drives. If the problem remains unresolved, please contact Synology Technical Support for help.

1.5 Hardware Specification

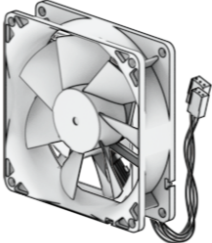
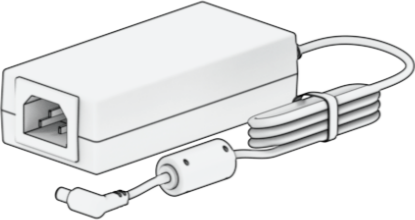
Item	DS223
CPU	Realtek RTD1619B
RAM	DDR4 2 GB
Compatible Drive Type	3.5"/2.5" SATA x 2
External Port	USB 3.2 Gen 1 × 3
LAN Port	1GbE (RJ-45) x 1
Size (H x W x D) (mm)	165 × 108 × 232.7
Weight (kg)	1.28
Agency Certification	<ul style="list-style-type: none"> • FCC Class B • CE Class B • UKCA • BSMI Class I • EAC • VCCI • CCC • RCM • KC
HDD Hibernation	Yes
Scheduled Power On/Off	Yes
Wake on LAN	Yes
Environment Requirement	<ul style="list-style-type: none"> • Line voltage: 100V to 240V AC • Frequency: 50 / 60Hz • Operating Temperature: 32°F to 104°F (0°C to 40°C) • Storage Temperature: -5°F to 140°F (-20°C to 60°C) • Relative Humidity: 5% to 95% RH

Notes:

Model specifications are subject to change without notice. Refer to [Synology website](#) for the latest information.

1.6 Spare Parts

Refer to [Spare Parts](#) if you need to replace system fans, disk trays, or power supply units.

Model Name	Picture	Description
Disk Tray (Type D7)	" data-bbox="404 423 665 501"/>	3.5"/2.5" Drive Tr
FAN 92*92*25_1		System Fan 92*9 mm
Adapter 60W_1		Adapter 60W Lev

1.7 Optional Accessories

With Synology accessories, you can customize your Synology NAS to fit different business environments without worrying about compatibility and stability. Refer to [Synology Products Compatibility List](#) for more information.

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