

DS220j Datasheet

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Overview

Synology DS220j is an entry-level 2-bay NAS designed for home and personal users to store and share photos, videos, and documents. The private cloud solution is powered by the award-winning DiskStation Manager (DSM) OS, providing an intuitive user interface and safe data protection approaches for easy digital asset backups from computers and mobile devices at no additional cost.

Quick Spec

Table 1 shows the quick spec.

Product Code	DS220j
CPU Model	Realtek RTD1296
CPU Quantity	1
CPU Architecture	64-bit
CPU Frequency	4-core 1.4 GHz
Hardware Encryption Engine	√
System Memory	512 MB DDR4 non-ECC
Drive Bays	2
Compatible Drive Type*	3.5" SATA HDD 2.5" SATA HDD (with optional 2.5" Disk Holder) 2.5" SATA SSD (with optional 2.5" Disk Holder)
Maximum Single Volume Size*	108 TB
Hot Swappable Drive	-
RJ-45 1GbE LAN Port	1
USB 3.2 Gen 1 Port*	2
Notes	The USB 3.0 standard was renamed to USB 3.2 Gen 1 by the USB Implementers Forum (USB-IF) in 2019.
RJ-45 1GbE LAN Port	1

Product Details

Synology DS220j provides these features and benefits:

An easy-to-use private cloud for everyone

DS220j is an entry-level 2-bay NAS designed for home and personal users to store and share photos, videos, and documents. The private cloud solution is powered by the award-winning DiskStation Manager (DSM) OS, providing an intuitive user interface and safe data protection approaches for easy digital asset backups from computers and mobile devices at no additional cost.

CPU

64-bit 4-core 1.4 GHz

Performance

**More than 112 MB/s
reading and writing¹**

Safe storage

**RAID 1 protection to
avoid sudden drive
failure**

Cost savings

**No public-cloud
subscription fees**



Centralized backup solution for your digital devices

Synology's comprehensive multi-version backup solutions protect your digital assets on computers (Windows/Mac) and mobile phones (Android/iOS) against malicious attacks, including the rising threat from encryption-based ransomware.

Stream content to your TV

Turn your Synology NAS into a home media hub and stream your digital content to your favorite electronic devices, including computers, mobile devices, Samsung TV, Apple TV, Google Chromecast, and DLNA devices.

Apple TV

Android TV

Samsung TV



Synology Hybrid RAID (SHR) technology

Storage management is easy with Synology Hybrid RAID (SHR) technology. SHR is an automated RAID management system that allows you to easily create and expand storage volumes and migrate RAID types without requiring details on the RAID setup. SHR provides 1-disk redundancy to safeguard your data in case of drive failures.



Cost-effective

SHR maximizes the data capacity of your RAID when different size HDDs are used.



Easy Management

For new users with limited technical knowledge who want to protect their data using RAID technology, a convenient installation wizard will guide you through all the steps during your first installation.



Scalability

Add new disks on the fly in Storage Manager with a simple click.



Flexibility

While creating a volume, choose to plan ahead and leave empty or unallocated space for future use.



Seamless integration with your mobile devices

Synology mobile applications are designed to give you quick and secure access to your data wherever you are.



DS audio



DS Photo



DS video

Powered by Synology DiskStation Manager



File Server/Management

Powerful built-in file management and sharing services.



Multimedia

Complete multimedia solution for management, streaming, and playback.



Hyper Backup

Store multiple backup versions with block-level incremental data backup and cross-version deduplication.



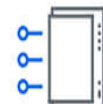
DSM UI

Award-winning operating system with an intuitive user interface and powerful capabilities.



Security

Shield your Synology NAS from the most sophisticated threats with industry-leading security solutions.



All-in-one server

Save additional investment by integrating various network services, web/mail services, management applications into your NAS.

Detail of DiskStation DS220j



- | | |
|------------------------------|-----------------------------|
| 1 Status indicator | 6 USB 3.0 port |
| 2 LAN indicator | 7 Reset button |
| 3 Drive status indicator | 8 Power port |
| 4 Power button and indicator | 9 1GbE RJ-45 port |
| 5 System fan | 10 Kensington Security Slot |



Notes:

1. Performance figures may vary depending on environment, usage, and configuration.

Compare to Similar Items

Table 2 shows the comparison.

Product Code	DS120j	DS220j	DS420j
CPU Model	Marvell Armada 3700 88F3720	Realtek RTD1296	Realtek RTD1296
CPU Quantity	1	1	1
CPU Architecture	64-bit	64-bit	64-bit
CPU Frequency	2-core 800 MHz	4-core 1.4 GHz	4-core 1.4 GHz
Hardware Encryption Engine	√	√	√
System Memory	512 MB DDR3L non-ECC	512 MB DDR4 non-ECC	1 GB DDR4 non-ECC
Drive Bays	1	2	4
Compatible Drive Type*	3.5" SATA HDD 2.5" SATA HDD (with optional 2.5" Disk Holder)	3.5" SATA HDD 2.5" SATA HDD (with optional 2.5" Disk Holder) 2.5" SATA SSD (with optional 2.5" Disk Holder)	3.5" SATA HDD 2.5" SATA HDD 2.5" SATA SSD
Maximum Single Volume Size*	108 TB	108 TB	108 TB
Hot Swappable Drive	-	-	-
RJ-45 1GbE LAN Port	1	1	1
USB 2.0 Port	2	2	2
Size (Height x Width x Depth)	166 mm x 71 mm x 224 mm	165 mm x 100 mm x 225.5 mm	184 mm x 168 mm x 230 mm
Weight	0.7 kg	0.88 kg	2.21 kg

Get More Information

Do you have any question about the DS220j?

Contact us now via [Live Chat](#) or sales@router-switch.com.

Specification

DS220j Specification	
CPU	
CPU Model	Realtek RTD1296
CPU Quantity	1
CPU Architecture	64-bit
CPU Frequency	4-core 1.4 GHz
Hardware Encryption Engine	√
Memory	
System Memory	512 MB DDR4 non-ECC
Notes	Synology reserves the right to replace memory modules with the same or higher frequency based on supplier's product life cycle status. Rest assured that the compatibility and stability have been strictly verified with the same benchmark to ensure identical performance.
Storage	

Drive Bays	2
Compatible Drive Type*	3.5" SATA HDD 2.5" SATA HDD (with optional 2.5" Disk Holder) 2.5" SATA SSD (with optional 2.5" Disk Holder)
Maximum Single Volume Size*	108 TB
Hot Swappable Drive	-
Notes	"Compatible drive type" indicates drives that have been tested to be compatible with Synology products. This term does not indicate the maximum connection speed of each drive bay.
External Ports	
RJ-45 1GbE LAN Port	1
USB 3.2 Gen 1 Port*	2
Notes	The USB 3.0 standard was renamed to USB 3.2 Gen 1 by the USB Implementers Forum (USB-IF) in 2019.
RJ-45 1GbE LAN Port	1
File System	
Internal Drives	EXT4
External Drives	EXT4 EXT3 FAT NTFS HFS+ exFAT
Appearance	
Size (Height x Width x Depth)	165 mm x 100 mm x 225.5 mm
Weight	0.88 kg
Others	
System Fan	92 mm x 92 mm x 1 pcs
Fan Speed Mode	Full-Speed Mode Cool Mode Quiet Mode Low-power Mode
Brightness Adjustable Front LED Indicators	√
Power Recovery	√
Noise Level*	18.2 dB(A)
Scheduled Power On / Off	√
Wake on LAN / WAN	√
Power Supply Unit / Adapter	60 W
AC Input Power Voltage	100 V to 240 V AC
Power Frequency	50/60 Hz, Single Phase
Power Consumption*	12.46 W (Access) 5.06 W (HDD Hibernation)

British Thermal Unit	45.52 BTU/hr (Access) 17.27 BTU/hr (HDD Hibernation)
Notes	* Power consumption is measured when it is fully loaded with Western Digital 1TB WD10EFRX hard drive(s). * Noise Level Testing Environment: Fully loaded with Seagate 2TB ST2000VN000 hard drive(s) in the idle state. Two G.R.A.S. Type 40AE microphones, each set up 1 meter away from the Synology NAS at the front and rear. Background noise: 16.49-17.51 dB(A); Temperature: 24.25-25.75°C; Humidity: 58.2-61.8%
Temperature	
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to 60°C (-5°F to 140°F)
Relative Humidity	5% to 95% RH
Certification	EAC CCC KC FCC CE BSMI VCCI RCM
Warranty	2 Years Notes: The warranty period starts from the purchase date as stated on your purchase receipt.
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	VisualStation: VS960HD/VS360HD Surveillance Device License Pack Disk Holder: Type C
Notes: 1.Model specifications are subject to change without prior notice. 2.The figures are based on Synology internal testing. Each performance test is done individually. No other services or applications are processed at the same time. 3.The actual performance may be lower than lab testing figure due to differences in server configuration, deployment, and the number of active operations. 4.If usage requirements exceed the specifications above, please contact our regional partners for professional advice.	


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