

# Synology DiskStation DS220j NAS Server (2 Bay, Quad Core 1.4GHz, 512 MB DDR3L, 18.2 dB)

PRD-202607-0008 · Synology · Specification Sheet

Brand	Synology
Model / MPN	DS220j
Reference price	MYR 979.00 (reference only)
Form factor	Tower

## . Key Features

- 2 x 3.5/2.5" SATA HDD/SSD Drive Bays
- 1.4 GHz Realtek RTD1296 Quad-Core
  - 512MB of DDR4 RAM
  - 1 x Gigabit Ethernet Port
  - 2 x USB 3.0 Type-A Ports
- RAID 0, 1, Basic, Hybrid, and JBOD
- Up to 112 MB/s Reads and Writes
  - Hardware Encryption Engine
- Synology DiskStation Manager OS

## CPU

CPU Model	Realtek RTD1296
CPU Quantity	1
CPU Architecture	64-bit
CPU Frequency	4-core 1.4 GHz
Hardware Encryption Engine	?

## Memory

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System Memory	512 MB DDR4 non-ECC
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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.
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## Storage

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Drive Bays	2
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Compatible Drive Type* <a href="#">(See all supported drives)</a>	<ul style="list-style-type: none"><li>• 3.5" SATA HDD</li><li>• 2.5" SATA HDD (with optional 2.5" Disk Holder)</li><li>• 2.5" SATA SSD (with optional 2.5" Disk Holder)</li></ul>
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Hot Swappable Drive*	-
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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.
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## External Ports

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RJ-45 1GbE LAN Port	1
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USB 3.2 Gen 1 Port*	2
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Notes	The USB 3.0 standard was renamed to USB 3.2 Gen 1 by the USB Implementers Forum (USB-IF) in 2019.
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## File System

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Internal Drives	<ul style="list-style-type: none"><li>• EXT4</li></ul>
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External Drives	<ul style="list-style-type: none"><li>• EXT4</li><li>• EXT3</li><li>• FAT</li><li>• NTFS</li><li>• HFS+</li><li>• exFAT</li></ul>
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Notes	exFAT Access can be installed for free from Package Center in DSM 7.0. In DSM 6.2 or earlier versions, exFAT Access needs to be purchased in Package Center.
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## Appearance

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Size (Height x Width x Depth)	165 mm x 100 mm x 225.5 mm
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Weight	0.88 kg
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## Others

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System Fan	92 mm x 92 mm x 1 pcs
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Fan Speed Mode	<ul style="list-style-type: none"><li>• Full-Speed Mode</li><li>• Cool Mode</li><li>• Quiet Mode</li><li>• Low-power Mode</li></ul>
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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	100V to 240V 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	<ul style="list-style-type: none"> <li>• Power consumption is measured when it is fully loaded with Western Digital 1TB WD10EFRX hard drive(s).</li> <li>• 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%</li> </ul>

## Temperature

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Operating Temperature 0°C to 40°C (32°F to 104°F)

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Storage Temperature -20°C to 60°C (-5°F to 140°F)

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Relative Humidity 5% to 95% RH

## Certification

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- EAC
- CCC
- KC
- FCC
- CE
- BSMI
- VCCI
- RCM

## Warranty

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2-year hardware warranty, extendable to 4 years with [Extended Warranty Plus](#)

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### Notes

- Availability varies by region. Before purchasing, please visit the official web pages of [EW201/202](#) and [Extended Warranty Plus](#) for a list of eligible regions.
- The warranty period starts from the purchase date as stated on your purchase receipt. ([Learn more](#))

## Environment

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RoHS Compliant

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## Packaging Content

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- 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

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- VisualStation: [VS360HD](#)
- Surveillance Device License Pack
- Disk Holder: Type C