CAS-NASBOX-DS416

Synology DS416 DiskStation Dual Core 1.4 GHz Annapurna Labs Alpine AL-212 4 Bay NAS

Product Overview

Synology DS416 DiskStation Dual Core 1.4 GHz Annapurna Labs Alpine AL-212 4 Bay NAS Server For SMB and SOHO; 1.4Ghz DC; 1GB Ram; 2 x 1GbE; 3 x USB3.0; 25 x IPCAM + 2 Free Lixense



Specifications

Features:

Powerful, fully-featured powerhouse
Designed to accommodate intensive tasks, the DS416 delivers high performance for workgroups and office environments. DS416 is powered by a fast, dual-core CPU, and paired with more memory to allow you to do more at once. The hardware encryption engine ensures maximum performance even for sensitive data transfers. Hot swappable drive trays with dual Gigabit LAN enables Link Aggregation and Failover support for maximum service continuity.

Synology Hybrid RAID (SHR) technology
Storage management is easy with Synology Hybrid RAID (SHR) technology. SHR is an automated RAID management system allowing users to easily create and expand storage volumes and migrate RAID types without requiring details on RAID. SHR provides 1 to 2-disk redundancy to safeguard your data during drive failures.

Cost-effective
SHR maximizes the data capacity of your RAID when different sizes of HDDs are used.

Easy Management
For novice users who have no technical background and still want to protect their data using RAID technology, a convenient installation wizard will guide you through all the steps during your first installation.

Scalability
You can add new disks on the fly in Storage Manager with a simple click.

Flexibility
While creating a volume, you can plan ahead and leave empty and unallocated space for future usage.

Synchronize files across your devices
Cloud Station Suite provides real-time data synchronization across all your devices, such as computers, mobile devices, and

other Synology NAS whenever a file is modified. "Intelliversioning" keeps the most important file versions to better utilize storage space.

Real-time collaboration on your private cloud
Office is a collaboration package combining the convenience and usability of public clouds with the data privacy and security guaranteed by private clouds. It allows you to work seamlessly together on documents and spreadsheets in a protected environment.

Ultimate file management and sharing
File Station is a web-based, fast and secure management tool built to allow easy, drag-and-drop operation without requiring any complex setup on Mac or PC. Advanced search and filtering tools allow for easy organization and sharing of files with just a link. Supports SMB, FTP, AFP, NFS, WebDAV, compatible with any environment.

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 simple customizable address (e.g. https://customID.quickconnect.to), so that you can instantly access media and work files on any Windows/Mac/Linux computer, laptop, or mobile device without additional charge.

Seamless integration with your mobile devices
Synology mobile applications are designed to allow quick and secure access to your data wherever you are.

Surveillance Station
Complete surveillance solution for recording, monitoring, and management.

Desktop Backup
Simplified backup solution for your Mac, PC, and mobile devices.

Public Cloud Integration
Backup and synchronize data easily between your public cloud accounts and your NAS.

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

Security
Comprehensive built-in security tools are constantly updated to tackle evolving threats and protect your devices.

Multimedia
Complete multimedia solution for management, streaming, and playback.

Specifications:

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Specifications	
Product Code	CAS-NASBOX-DS416
CPU	
CPU Model	Annapurna Labs Alpine AL-212
CPU Architecture	32-bit

CPU Frequency	Dual Core 1.4 GHz
Hardware Encryption Engine	Yes
Memory	
System Memory	1 GB DDR3
Storage	
Drive Bays	4
Compatible Drive Type	3.5" SATA HDD
	2.5" SATA HDD
	2.5" SATA SSD
Maximum Internal Raw Capacity	40 TB (10 TB drive x 4) (Capacity may vary by RAID types)
Maximum Single Volume Size	16 TB
Hot Swappable Drive	Yes
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 raw capacity is not limited by the maximum single volume size. Synology NAS models may utilize capacities over the maximum single volume size as long as each volume created is below the limit.
External Ports	
RJ-45 1GbE LAN Port	2 (with Link Aggregation / Failover support)
USB 3.0 Port	3
File System	
Internal Drives	EXT4
External Drives	EXT4
	EXT3
	FAT
	NTFS
	HFS+
	exFAT
Notes	HFS+ is read only, max 2TB volume size.
	exFAT Access is purchased separately in Package Center.
Appearance	
Size (Height x Width x Depth)	165 mm x 203 mm x 233.2 mm
Weight	2.04 kg
Others	
System Fan	92 mm x 92 mm x 2 pcs
Fan Speed Mode	Cool Mode
	Quiet Mode

Wireless Support (dongle)	Yes
Power Recovery	Yes
Noise Level	20.2 dB(A)
Scheduled Power On/Off	Yes
Wake on LAN/WAN	Yes
Power Supply Unit / Adapter	90W
AC Input Power Voltage	100V to 240V AC
Power Frequency	50/60 Hz, Single Phase
Power Consumption	31.96 W (Access)
	10.14 W (HDD Hibernation)
British Thermal Unit	109.13 BTU/hr (Access)
	34.62 BTU/hr (HDD Hibernation)
Environment Temperature	
Operating Temperature	5 degreesC to 40 degreesC (40 degreesF to 104 degreesF)
Storage Temperature	-20 degreesC to 60 degreesC (-5 degreesF to 140 degreesF)
Relative Humidity	5% to 95% RH
Certification	FCC Class B
	CE Class B
	BSMI Class B
Storage Management	
Maximum Internal Volume Number	256
Maximum iSCSI Target Number	10
Maximum iSCSI LUN	10
Supported RAID Type	Synology Hybrid RAID
	Basic
	JBOD
	RAID 0
	RAID 1
	RAID 5
	RAID 6
	RAID 10
RAID Migration	Basic to RAID 1
	Basic to RAID 5
	RAID 1 to RAID 5
	RAID 5 to RAID 6

Volume Expansion with Larger HDDs	Synology Hybrid RAID
	RAID 1
	RAID 5
	RAID 6
Volume Expansion by Adding a HDD	Synology Hybrid RAID
	RAID 5
	JBOD
Global Hot Spare Supported RAID Type	Synology Hybrid RAID
	RAID 1
	RAID 5
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	256
Windows Access Control List (ACL) Integration	Yes
NFS Kerberos Authentication	Yes
Log Center	Yes
Syslog Events per Second	400
Chat	Yes
Maximum Users	150
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	Yes
Maximum Number of Concurrently Connected Devices	256
Maximum Number of Synced Files (ext4)	100,000 / single file reaction time 1038 ms
Notes	The maximum number of concurrently connected devices refers to the maximum number of devices that can remain connected at the same time. For more information on file processing capability, please refer to the reaction time for file processing.
	File reaction time refers to the preparation time required for other devices to start downloading a 1KByte file from a Synology NAS after the file has been added to the NAS. RAM expansion was not used during testing.
	Non-encrypted shared folders were used during the aforementioned testing.

Download Station	Yes
Maximum Concurrent Download Tasks	50
exFAT Access (optional)	Yes
Media Server	Yes
DLNA Certification	Yes
Office	Yes
Maximum Users	150
Maximum Simultaneous Editing Users	40
Notes	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
Surveillance Station	Yes
Maximum IP cam (Licenses required)	25 (including 2 Free License) (See All Supported IP Cameras)
Total FPS (H.264)	750 FPS @ 720p (1280x720)
	200 FPS @ 1080p (1920x1080)
	150 FPS @ 3M (2048x1536)
	100 FPS @ 5M (2591x1944)
Total FPS (MJPEG)	250 FPS @ 720p (1280x720)
	100 FPS @ 1080p (1920x1080)
	60 FPS @ 3M (2048x1536)
	40 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	Yes
Video Transcoding	Group 1 - Type 2
VPN Server	Yes
Maximum Connections	15
Environment & Packaging	
Environment	RoHS Compliant

Packaging Content	Main Unit X 1
	Welcome Note X 1
	Accessory Pack X 1
	AC Power Adapter X 1
	AC Power Cord X 1
	RJ-45 LAN Cable X 2
Optional Accessories	Surveillance Device License Pack
	VS360HD

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/CAS-NASBOX-DS416-Synology-DS416-DiskStation-Dual-Core-1-4-GHz-Annapurna-Labs-Alpine-p-208032.php

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