

MINI-PC Minis Forum NAS N5 Pro AMD Ryzen AI 9 HX Pro 370, 32GB+128GB O



Model: NAS N5 Pro

Manufacturer: MINIS FORUM

EAN: 4897118834339

Product Code: 1418128

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The Minis Forum NAS N5 Pro is a NAS-class PC built for the most demanding users - developers, engineers, data analysts and companies that need a reliable local AI infrastructure. Powered by the flagship AMD Ryzen™ AI 9 HX Pro 370 processor with 80 TOPS of processing power, it offers exceptional performance for computing, server and machine learning applications. It supports up to 96GB of DDR5 ECC memory, guaranteeing stability and lightning-fast data transfer in precision-intensive environments. A storage system with up to 144TB of capacity (5 HDD bays + 3 M.2 PCIe 4.0 SSDs) provides flexible configuration options - from project archiving to multimedia hosting. The industrial design is engineered for compactness, efficient cooling and quiet operation, while a rich set of ports, including PCIe x16, 10 Gbps LAN, 5 Gbps LAN and OcuLink, allows you to create

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advanced computing and networking systems. The whole thing is complemented by MinisCloud OS, which offers multi-scenario data handling - at work, at home and in the private cloud.

Next-generation multi-core power

The NAS N5 Pro mini PC sets a new performance standard among NAS-class mini-computers. Powered by the AMD Ryzen™ AI 9 HX Pro 370 chip with Zen 5 + Zen 5c architecture, featuring 12 cores and 24 threads and clocked at up to 5.1 GHz, it delivers up to 10 times the speed of typical Intel N100 processor models. Such power enables lightning-fast multi-user file access, parallel processing and smooth decoding of 4K video content. The integrated NPU offers 50 TOPS of local AI power, boosting the performance of AI-based tasks by up to 68% over the previous generation. The integrated AMD Radeon™ 890M GPU, on the other hand, improves video transcoding and rendering, delivering a 20% increase in smoothness - the device is ideal for multimedia-intensive environments.

Intelligent system for work and data management

The device runs on MinisCloud OS, which combines ease of use with professional-grade features. The platform works with Windows, macOS, iOS and Android, allowing quick access to data from any device - without the need to configure complex network protocols. Built-in features such as ZFS snapshots, LZ4 compression, multi-user isolation and support for containerized applications allow you to create a secure work environment and manage resources efficiently. The system also offers AI-based smart photo albums and one-click remote access, allowing users to fully control their data, regardless of location or device. Integrated tools monitor file integrity and use the high-speed, lossless LZ4 compression algorithm (up to 500 MB/s) to help manage storage space and speed up backups.

Expanded computing power for professionals

Thanks to the OCuLink port, it is possible to connect an external graphics card (eGPU), which significantly speeds up calculations related to artificial intelligence, rendering or image processing - by up to three times. A built-in PCIe x16 slot allows further expansion - from 10 GbE network cards, to storage controllers, to additional ultra-low-latency SSDs. Such capabilities make the NAS N5 Pro ideal for creators, developers and IT professionals looking for a flexible, scalable and powerful system ready to handle the most demanding tasks.

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Fast transfers and secure data copies

The computer is equipped with a 10 GbE network port, which provides data transfer speeds of up to 1,250 MB/s - up to ten times faster than standard gigabit networks. As a result, it takes just a few seconds to transfer a 10-gigabyte file, such as a Blu-ray movie. Such high throughput makes it easier to collaborate between teams, handle large graphics projects or exchange data between servers without delays. In addition, the ZFS file system with snapshots function protects data from accidental deletion and allows quick restoration of an earlier version of files, which is especially important for financial records, graphic design projects, videos or customer resources. What's more, the DDR5 ECC (Error-Correcting Code) memory used automatically detects and corrects data errors, increasing system stability and information storage reliability. As a result, Minis Forum NAS N5 Pro guarantees the integrity of files even with intensive work of multiple users simultaneously.

Smart media library and entertainment center

The NAS N5 Pro can also act as a personal media center. With its intelligent AI Photo Library, it automatically recognizes faces, classifies photos by scene and allows you to search for images based on their content - ideal for organizing large photo collections. Remote media access lets you view, play and share photos and videos from any location and device. Home Theater & Music Hall features offer a comfortable environment for watching movies and listening to music - with support for high-quality video formats and lossless audio. It's a complete solution for home entertainment and digital collections.

Convenient sharing and full data control

MinisCloud OS offers an intuitive, cross-platform interface with drag-and-drop support, instant file access and simple backup. With Public Network Traversal, it is possible to remotely connect to the server from anywhere - without complicated network configuration. The system supports one-button backups and synchronization between PCs and Macs, allowing quick access to documents, photos or work projects. Granular Access Control lets you create private spaces for each user - ideal for teams and families. The system works locally, without storing login credentials in the cloud, enhancing privacy. The entire system is based on encrypted connections and multi-level data encryption to ensure secure access and storage of information.

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Stable memory for demanding tasks

The computer supports up to 96 GB of 5600 MHz DDR5 ECC memory, ensuring unmatched stability and smooth operation even under multitasking loads. ECC technology automatically detects and corrects data errors, which is crucial in environments that require complete reliability - such as servers, virtual machines or professional workstations. Compared to DDR4 memory, the new DDR5 standard offers as much as 75% higher bandwidth, allowing you to work freely with large files, multiple users and parallel processes. It's a solution designed for professionals who need the confidence that their data will remain secure and available without interruption.

Thoughtful design for maximum convenience

The NAS N5 Pro computer is designed to provide maximum functionality while maintaining compact dimensions (199 × 202 × 252 mm). The innovative 5-bay chassis accommodates as many as five drives in a space typically used for four, offering 25% more capacity without increasing the size of the unit. A slide-out motherboard allows quick access to components and seamless expansion of RAM or replacement of SSDs, while the modular design supports standard components, eliminating the limitations typical of integrated solutions. Efficient cooling is taken care of by the 9225 dual fan system, which actively dissipates heat from the HDD bays, ensuring stable and quiet operation even under heavy load. An additional USB-A port allows you to connect a system drive or backup media, maintaining the aesthetic, minimalist look of the case.

Included:

- Mini PC
- Power supply
- Power cable
- HDMI cable
- Network cable
- HDD screws
- U.2 SSD power cable
- User manual

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Manufacturer	Minis Forum
Model	NAS N5 Pro
Supported operating system	MinisCloud OS / Windows 11 Pro / Linux
Dimensions	199 × 202 × 252 mm
Weight	5 kg
Processor	AMD Ryzen™ AI 9 HX PRO 370
Number of cores	12
Number of threads	24
Base clocking	2 GHz
Max. turbo clocking	5.1 GHz
Graphics chip	AMD Radeon™ 890M
NPU performance	Up to 50 TOPS
RAM type	DDR5 SO-DIMM × 2 (ECC support)
Available RAM configurations	0 / 16 / 32 / 64 / 96 GB
Max memory speed	5600 MT/s
Max. supported capacity	96 GB
HDD drive bays	5 × 3.5" / 2.5" HDD (up to 22 TB per drive, SATA 3.0)
SSD slot 1	1 × M.2 2230 / 2280 / 22110 NVme SSD (up to 4 TB, PCIe 4.0 x1)
SSD slot 2	1 × U.2 / M.2 2280 / 22110 NVme SSD (up to 15 TB, PCIe 4.0 x1)
SSD slot 3	1 × U.2 / M.2 2280 / 22110 NVme SSD (up to 15 TB, PCIe 4.0 x2)
Optional system drive	128 GB (M.2 2280 SSD)
Supported RAID modes	RAID 0, RAID 1, RAID 5, RAID 6
CPU cooling type	PCM
CPU fan type	Turbo fan 75 × 15 mm
Max CPU fan speed	2700 RPM
HDD fans	2 × 90 × 25 mm (Axial-flow)
Max. speed of HDD fans	3450 RPM
Noise level (balanced mode)	42 dB @ 50 cm
LAN port 1	5 GbE LAN (RJ45, module: RTL8126)
LAN port 2	10 GbE LAN (RJ45, module: AQC113)

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Status LED	1 × (front)
LAN LEDs	2 × (front)
HDD LEDs	5 × (front)
Video outputs:	HDMI × 1 (up to 8K @ 60 Hz / 4K @ 144 Hz) USB4 × 2 (up to 8K @ 60 Hz / 4K @ 144 Hz)
Audio outputs	HDMI × 1 USB4 × 2
I/O ports (front panel)	USB4 (Alt DP 2.0) × 1 USB 3.2 Gen 2 × 1 USB4 (Alt DP 2.0) × 1 HDMI 2.1 FRL × 1 OCuLink × 1
I/O ports (rear panel)	LAN port 10 GbE (RJ45, AQC113) × 1 LAN 5 GbE port (RJ45, RTL8126) × 1 USB 3.2 Gen 2 × 1 USB 2.0 × 1
Internal I/O ports	PCIe slot ×16 (PCIe 4.0 ×4) × 1 USB 3.2 Gen 2 × 1 Power button with LED × 1
Additional features	Reset hole × 1 Theft protection hole × 1 Built-in buzzer × 1
Power supply	DC 5525, 19 V / 14.73 A, 280 W

GPSR Link: https://psr-assets.innpro.pl/it_accessories/sg_it_accessories_others.pdf, Gross weight: 7570, Net weight: 5000, Box length: 37,00, Box width: 32,50, Box height: 33,50, Information about data generation: https://dataact.innpro.pl/Minis_Forum/4897118834339

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