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Source Issues Download Donation

PINAS

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PiNAS is a compact, modular, 3D-printable Network Attached Storage system designed around the Raspberry Pi platform.

It blends functional engineering with an angular, industrial design inspired by modern embedded hardware. The goal is simple: build a powerful, customizable NAS that looks as intentional as it performs.

This project focuses on:

- Clean mechanical design
- Proper airflow for 3.5“ HDD cooling

- Modular storage configurations
- Full documentation for replication and customization

PiNAS is not just a Raspberry Pi in a box. It is a purpose-built storage appliance.

FEATURES

- **3D Printable**: Fully printable enclosure designed for standard FDM printers. Optimized for strength, airflow, and ease of assembly.
- **Various Combinations**: Supports multiple drive configurations (2x, 4x 3.5” HDD, future 2.5“ variants). Modular internal layout allows flexible hardware arrangements.
- **Raspberry Pi Foundation**: Designed for Raspberry Pi 5 compatibility, with proper mounting, cooling clearance, and I/O access.
- **Radxa Penta SATA HAT**: Native support for the Radxa Penta SATA HAT for multi-drive setups with proper cable routing and backplane alignment.
- **Airflow Engineered**: Dedicated intake and exhaust paths to maintain safe operating temperatures for both HDDs and the Raspberry Pi.
- **Tool-Friendly Assembly**: Uses standard screws, threaded inserts (optional), and minimal hardware complexity.

Upload

GALLERY

WAIT, WHERE IS THE DOCUMENTATION?

Complete build instructions, hardware lists, configuration guides, and performance tuning documentation can be found here: PiNAS Documentation

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View the discussion thread.

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