

TABLE OF CONTENTS

FEATURES	4
GALLERY	4
WAIT, WHERE IS THE DOCUMENTATION?	5
TAGSPII5NASNETWORKSTORAGERADXPENTASATAHAT	5



[Source](#) [Issues](#) [Download](#) [Donation](#)

PINAS

Author(s): Louis Ouellet

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](#)

TAGSPIPI5NASNETWORKSTORAGE RADXPENTASATAH AT

[View the discussion thread.](#)

From:
<https://laswitchtech.com/> - LaswitchTech

Permanent link:
<https://laswitchtech.com/en/projects/pinas/index>

Last update: **2026/03/25 12:26**

