



Haven - Case for Raspberry Pi-Based MANET (by Parallel × MorosX)



Parallel

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Summary

Modular open-source case for Raspberry Pi-based MANET radios by Parallel × MorosX.

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[11/29/2025] - Update (v3)

- **Widened SMA hole**
- **Widened Go Pro base mount hole**

[11/23/2025] - Update (v2)

A new **v2** of the Haven Case is now available.

This revision increases clearance around the **RJ45 Ethernet latch**, making it easier to plug and unplug cables—especially when using ruggedized or thick-booted connectors.

Included in this update:

- **Haven Case Shell - v2 - Parallel x MorosX (.stl)**
- **Haven Case Insert - v2 - Parallel x MorosX (.stl)**
- **Haven Case - v2 - Step - Parallel x MorosX (.step)** (editable source for customization and remixes)

If you downloaded this model before today, grab the v2 files for the best fit. Thanks again to Trey at MorosX for making these improvements!

[11/3/2025] - Initial Release (v1.0)

Designed by Trey from **MorosX**, refined by **Parallel**, leveraging the **OpenMANET** project on GitHub.

The **Haven Case** is an extremely rugged, modular enclosure for Raspberry Pi-based **MANET** radios leveraging the **OpenMANET** project and **Wi-Fi HaLow (915 MHz)** using **Morse Micro** chipsets.

The enclosure design is 100% sterile and unattributable.

These were printed in **Fibron PA6-CF20**, the same filament that once took half a ton of pressure under my car without cracking or deformation. Enough said.

Taps into the field tested and versatile GoPro mounting ecosystem; bypassing expensive molle strap systems while maintaining utility.

The system includes two peices; a **main shell** and **insert**, designed for strength, airflow, and easy component swaps.

It's designed for open-source radio builds that need both durability and flexibility — whether you're prototyping a field-ready node, deploying off-grid connectivity, or experimenting with decentralized networks.

Built to keep powerful tech cheap, open, and fully in your hands — where it belongs.

Recommended Materials

Print Filament

- **Fibron PA6-CF20** or **NylonX Carbon Fiber Filament**

For best results, print in **carbon-fiber-reinforced nylon (PA6-CF20)** for that dense, matte rigidity and heat tolerance that feels like mil-spec.

Antenna

- Meshtac Flat Head Goose Neck 915 mhz center band from Rokland

- Case will fit most sub gigahertz antennas on the market with a base diameter of 14mm or less.

GoPro Male Mount with 1/4 inch thread

Rubber Washers 1/4 inch thread

4 x M2.5 6mm screws

4 x M3 x 16mm Hex Socket Head Cap Screws Bolt

1 x SMA Female to U.FL IPX Coax 4 inch Cable Length

4 x M3 Heat-Set Inserts

Dimensions

Height: 69.5 mm

Width: 80.5 mm

Length: 140 mm

Want help building the full node?

Grab the **Haven Field Manual** — a complete step-by-step guide covering setup, full assembly video tutorial, firmware installation and configuration, and deployment. Everything we've learned about these rigs has been documented there.

<https://buildwithparallel.com/products/haven>

Recommended Projects

Parallel's Haven Build - <https://buildwithparallel.com/products/haven>

MorosX IP Mesh Radio - <https://morosx.com>

OpenMANET - <https://openmanet.net/>

Why Haven Exists

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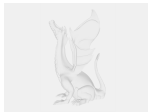
Model files



haven-case-shell-v3-parallel-x-moroxx.stl



haven-case-insert-v3-parallel-x-moroxx.stl



haven-case-v3-step-parallel-x-moroxx.step

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