



Flexo Meshtastic powered node case for Rak WisBlock, HeltecV3, T114, T190, WirelessTracker and RaspberryPi Pico



[VIEW IN BROWSER](#)

updated 3. 9. 2026 | published 3. 9. 2026

Summary

The most flexible Meshtastic powered home node. Supports multiple boards, multiple batteries, GPS and a Wall/GoPro mount

[Gadgets](#) > [Other Gadgets](#)

Tags: [pico](#) [rak](#) [meshtastic](#) [heltec](#) [rakwireless](#) [wisblock](#)
[rak4631](#) [rak19007](#) [rak19003](#) [t190](#) [visionmaster](#)

NOW UPDATED WITH SIMPLER UNIVERSAL POWER SWITCH DESIGN INTRODUCED IN BENDER2

Bender's bigger, badder brother is here! Meet Flexo, the most flexible Meshtastic powered node "case kit" available... and its FREE to print!

Check out the intro video [HERE](#) and the teardown video [HERE](#).

ASSEMBLY VIDEO NOW LIVE CLICK HERE!!!

Flexo is the evolution of my original case called Bender. Bender was designed to be a home/desk/windowsill node and was universally loved. There are over 3000 Bender's in all corners of the world, something I'm extremely proud of and grateful for!

Print Flexo and if you like it grab a hardware kit at <https://zerofox3d.com/>

Flexo Features

Flexo removes some of Benders limitations making it super flexible:

- Supports several device boards from Rak, Heltec and Raspberry Pi
- Allows a GPS module to be installed
- Supports a protected LIPO battery cell or 18650 with more battery support coming
- NEW UPDATE - Simpler Universal power switch design
- Includes a mounting system with wall mount and GoPro compatible mount
- Produces 80% less printing waste versus Bender (yay environment!)
- Exposes all GPIO pins for tinkering!

Supported Device Boards

The device boards supported at launch are:

- Rak Wisblock 19007 and 19003 (inc GPS module RAK12500 ZOE-M8Q)
- HeltecV3 (space available for GPS module!)
- Heltec T114 with screen (inc Heltec GPS module)
- Heltec Wireless Tracker (v1.1)
- Heltec VisionMaster T190
- Raspberry Pi Pico with WaveShare LORA hat

Supported Batteries

Batteries supported at launch are:

- EEMB 103395 3700mAh Flat LIPO (available on Amazon worldwide)
- 18650 cells (using a battery holder available in the hardware kit)
- Makerfocus 3700mAh (unconfirmed but size appears to match EEMB above)
- MakerHawk 603450 3.7V 3800mAh (unconfirmed but size appears to match EEMB above)

The increased size of Flexo allows it to support larger antenna's without wobbling on a desk. The antenna's pictured are a mix of Taoglas LORA antenna's (see there [website here](#) with links to distributors worldwide)

Mounting

The Wall mount / Go Pro mount is "dual function", it is one mount that can be used both ways. You can use command strips or double sided adhesive to stick it to a wall or if you want a more secure connection there are two counter sunk screw holes (no screws provided, dig in a draw, you know you have some)

To use the mount as a GoPro mount you simply insert the two included GoPro tabs into the mount.

File Structure

There are folders for each board with STL files within them, the ReleaseNotes file includes printing instructions.

The "universal" folder contains files needed regardless of which board you are using, print them all except for the battery mounts, print which ever you are using. Lastly there is a folder for the Smart Mount which doubles as a wall mount or GoPro mount.

Model files

	Heltec Wireless Tracker STL	2 files
	wtrackersupportv1.stl	
	wtrackerfrontv2.stl	
	Heltec T190 STL	2 files



t190supportv1.stl



heltect190frontv2.stl



Smart Mount STL

2 files



smartmountv1.stl



gopromountv1.stl



Pico STL

1 file



rpipicofrontv2.stl



Rak Wisblock STL

1 file



rakfrontv2.stl



HeltecT114 STL

2 files



heltect114bracketv1.stl



heltect114frontv2.stl



HeltecV3 STL

2 files



heltecv3bracketv1.stl

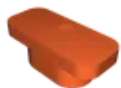


heltecv3frontv2.stl



Universal Files STL

7 files



powerbutton.stl



switchsupport.stl



supportbarv1.stl



18650mountv1.stl



smahextoolv2.stl

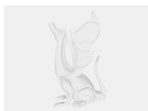


eemb3700mountv1.stl



bodyv2.stl

Other files



flexoreleasenotes.txt

License ©

This work is licensed under a
[Creative Commons \(4.0 International License\)](#)



Attribution—Noncommercial—No Derivatives

✗ | Sharing without ATTRIBUTION

- ✖ | Remix Culture allowed
- ✖ | Commercial Use
- ✖ | Free Cultural Works
- ✖ | Meets Open Definition