PIMORONI
Purveyors of fine Maker goods, worldwide

Pirate Radio - Pi Zero WH Project Kit

PIM261

Build your very own internet-connected radio with the Pirate Radio Kit!

Updated version! The kit now includes a Raspberry Pi Zero WH and the audio board now includes a pre-soldered header. **No soldering required!**

This kit has everything* you'll need, including a **Pi Zero WH**, audio board with VU meter LEDs, I2S DAC, and stereo amp, a **5W speaker**, and a beautifully retro acrylic enclosure to make it look the business. It'll take you around 30 minutes to put together (check out our **assembly guide** for details).

Kit contents

- Raspberry Pi Zero WH
- Audio board with I2S DAC, stereo amp. VU meter, and six buttons
- Single 5W 4Ω speaker
- Blue acrylic enclosure **
- 50cm USB A to micro-B cable
- USB A (female) to micro B (male) adaptor
- Mini to full-size HDMI adaptor
- Sticker sheet (personalise your Pirate Radio!)
- Comes in a reusable kit box

** Just add your own **micro-SD card***

*** We've tweaked the design of the back layer and legs recently, and have updated the **build guide** with extra instructions for these new pieces.*

This kit takes advantage of the built-in wireless LAN and Bluetooth on the Pi Zero WH, meaning that there's no longer any need for a USB Wi-Fi dongle.

We've put together three different software projects for your Pirate Radio: an **internet radio**, a **Spotify streaming box**, or an **AirPlay speaker**.

Features

- Dual I2S DAC/amplifiers (MAX98357A)
- 3W per channel
- 2x push fit speaker terminals
- DIP switch to select blended mono or stereo modes
- 16 RGB LED pixels (APA102) in 2 rows of 8
- 6 edge-mounted push buttons
- **Software installer** and ALSA VU meter plugin
- 5W 4Ω speaker with pre-soldered wires
- 3-layer blue acrylic enclosure
- Pi Zero W with single core CPU and built-in wireless LAN and Bluetooth
- Adaptor kit
- 50cm USB A to micro-B cable (power your Pi from an existing charger or computer)
- Pre-soldered header
- **Python library**

Software

Our nifty **one-line installer** will get your pHAT BEAT configured and install our VU meter plugin for ALSA that uses the RGB LEDs on pHAT BEAT to display sound levels.

We've also put together a **Python library** to allow you to control the LEDs independently, if you wish, and to program the buttons to do whatever you wish.

Notes

Assembled size of Pirate Radio is 135x85x70mm (WxHxD).

https://shop.pimoroni.com/products/pirate-radio-pi-zero-w-project-kit/12-15-20