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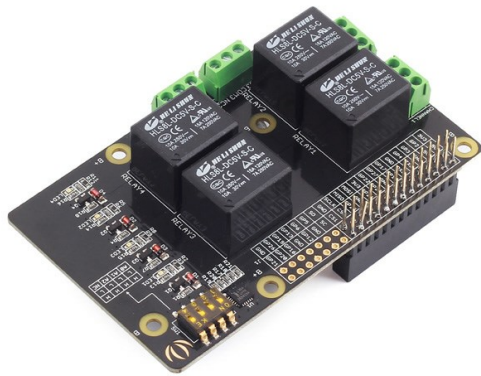**Pimoroni Pirate Radio - Pi Zero W Project Kit-Build your very own internet-connected radio**

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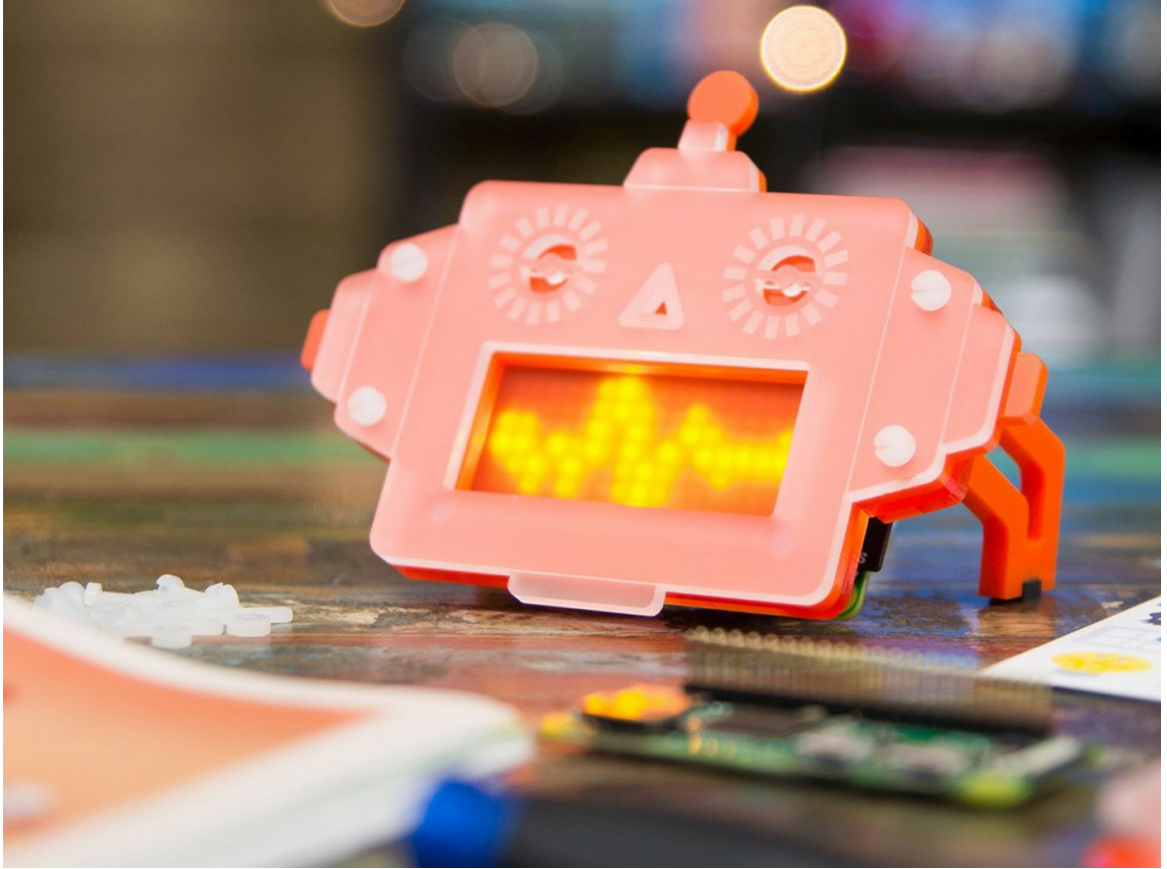
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Description

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

This kit has everything* you'll need, including a Pi Zero W, our flash new pHAT BEAT 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 assemble everything (check out our assembly guide for details).

Pirate Radio uses our new pHAT BEAT DAC and stereo amp. to drive the single speaker (left and right channels are mixed when you flip the DIP switch on the underside to mono mode). pHAT BEAT uses the same I2S mono DAC and amplifier that we use on Speaker pHAT and Picade HAT and... adds a second one for stereo goodness! The two rows of 8 APA102 RGB LEDs make the perfect VU meter, and there are 6 buttons along the edges to control your audio.

This kit takes advantage of the built-in wireless LAN and Bluetooth on the Pi Zero W, 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)

• Python library

• Female and male headers require soldering

**Note: This is a soldering project, although you could use one of no-solder hammer headers!

Technical Details

Dimensions 145mm x 90mm x 40mm
Weight   G.W 290g
Battery   Exclude

Part List

Clear frosted front layer	1
Blue middle layer with slatted speaker grille	1
Blue back layer with circular speaker hole	1
Blue leg retainers	2
Blue legs with rubber feet attached (or clear legs in the original radio)	2
M3 white nylon bolts and nuts	8
M2.5 white nylon bolts and nuts	4
M2.5 spacers	4
Pi Zero W	1
pHAT BEAT DAC and stereo amp. with VU meter and six buttons	1
Male and female 2x20 pin headers	1
Single 5W 4Ω speaker	1
50cm USB A to micro-B cable	1
USB A (female) to micro B (male) adaptor	1
Mini to full-size HDMI adaptor	1
Sticker sheet (personalise your Pirate Radio!)	1
Comes in a reusable kit box	1

ECCN/HTS

ECCN   ERA99
HSCODE8527990000

Documents

Python library

Learn

Internet Radio on your Pirate Radio

Turn your Pirate Radio Kit into an internet radio

Soldering Pi Zero pHATs

A quick tutorial on soldering Pi Zero pHATs

Streaming Airplay to your Pi

Stream music with Airplay from your iPhone to your Raspberry Pi

Assembling Pirate Radio

Learn how to assemble your Pirate Radio kit

Streaming Spotify to your Pi

Use Mopidy, Mopidy-Spotify, and Iris to stream Spotify to your Raspberry Pi

Getting Started with pHAT BEAT

Learn how to install and get started with your pHAT BEAT

Questions and Answers

Have a question about this? Ask people who

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