



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## **Pirate Radio - Pi Zero W Project Kit**

PIM261



**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).

### **Kit contents\***

- Pi Zero W
- pHAT BEAT DAC and stereo amp. with VU meter and six buttons
- Male and female 2x20 pin headers
- 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*

*\*\*Note that this is a soldering project, although you could use one of no-solder hammer headers!*

*\*\*\*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.*

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.

