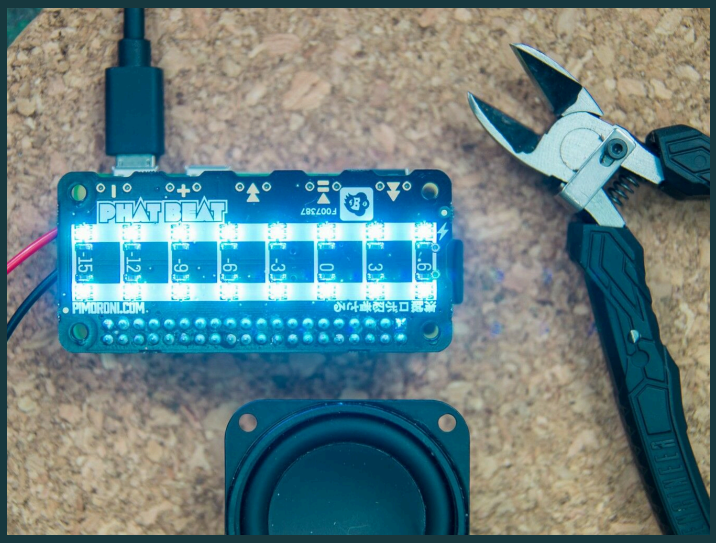
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INDUSTRIAL PRODUCT DATASHEET

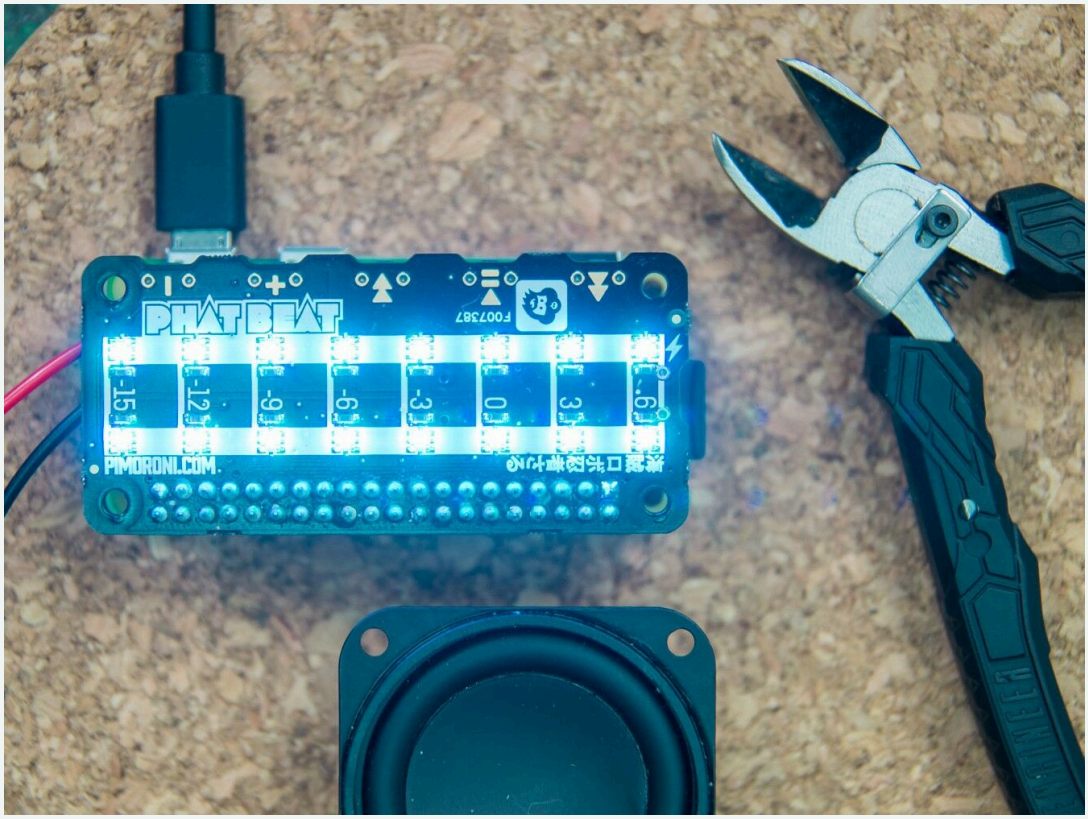
Pimoroni pHAT BEAT: stereo audio,16 RGB LEDs,6 buttons

Pimoroni pHAT BEAT: stereo audio, 16 RGB LEDs, and 6 buttons for Raspberry Pi.

SKU	UPDATED	PRICE
114991423	2026-04-09 12:48:43	$19.95(Excl. VAT)



Overview



The Pimoroni pHAT BEAT is a Raspberry Pi audio add-on with dual I2S DAC/amplifiers (MAX98357A) providing 3W per channel stereo audio, 16 APA102 RGB LEDs, and 6 edge-mounted push buttons. It features a DIP switch for mono/stereo output, push-fit speaker terminals, and includes a software installer with a VU meter plugin.

Key Features

The ultimate audio add-on for your Pi! pHAT BEAT gives you high-quality, digital, amplified, stereo audio and 16 beautiful little RGB LEDs, in two rows of 8, that are ideal as a VU meter, and 6 buttons to control your audio.

We've taken the I2S mono DAC and amplifier that we used on Speaker pHAT and Picade HAT and... added a second one for stereo goodness. There's a nifty little DIP switch on the bottom of the board that lets you select either mono (left and right are blended through both channels) or stereo playback. The clip-in terminals make it super-simple to wire in your speakers.

The two rows of 8 APA102 RGB LEDs make the perfect VU meter, but can be coded to do whatever you wish, like displaying the steps on a step sequencer Drum HAT or Piano HAT, or just pulsing in time with the beat.

The six buttons on the edges of pHAT BEAT are linked direct to GPIO, and can be used for whatever you wish, although we've suggested some uses on the board, like rewind, play/pause, fast-forward, volume up and down, and power.

Use pHAT BEAT to create a gorgeous little radio for your desk, to stream music from iPhone with Airplay, or turn it into a collaborative Slack-controlled Spotify player for your office!

Features

- dual I2S DAC/amplifiers for stereo audio (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
- **pHAT BEAT pinout**
- Compatible with Raspberry Pi 3, 2, B+, A+, Zero, Zero W
- Software installer and ALSA VU meter plugin
- **Python library**
- Female header requires soldering

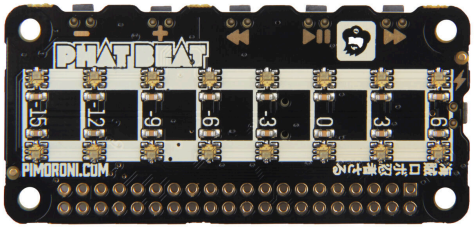
Software

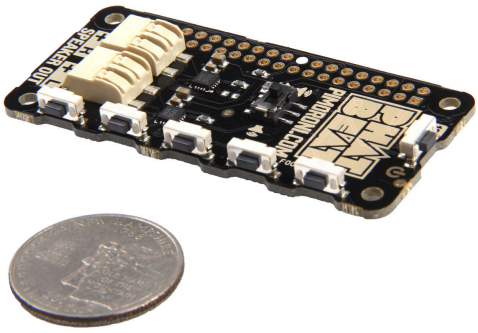
We've created a nifty one-line installer to get your pHAT BEAT set up in the blink of an eye. It'll reconfigure your ALSA audio to route it out through pHAT BEAT and install our VU meter plugin to display the volume levels in real time

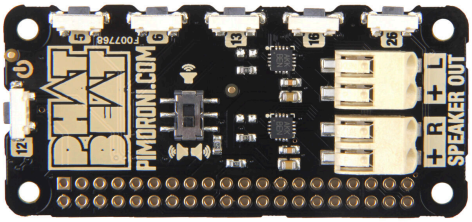
(although you can disable this and code the LEDs yourself).

Our software does not support Raspbian Wheezy.

Product Gallery







Part List

pHAT BEAT	1
2 x 20 Pin female header	1

Compliance & Logistics



HSCODE	8518900090
USHSCODE	8518902000
EUHSCODE	8517180000
COO	UNITED KINGDOM

Resource Links

- https://www.seeedstudio.com/Pimoroni-pHAT-BEAT-stereo-audio-16-RGB-LEDs-6-buttons-p-3008.html

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