Chipsmall

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!
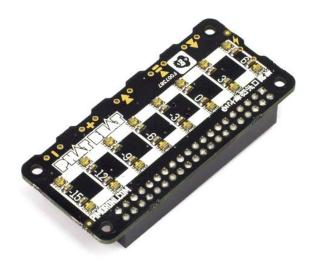
Contact us

pHAT BEAT

PIM267

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 https://pinout.xyz/pinout/phat_beat#
- Compatible with Raspberry Pi 3, 2, B+, A+, Zero, Zero W
- Software installer and ALSA VU meter plugin
- Python library https://github.com/pimoroni/phat-beat
- 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).

Notes

The dimensions of pHAT BEAT are 65x30x7.5mm.