



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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

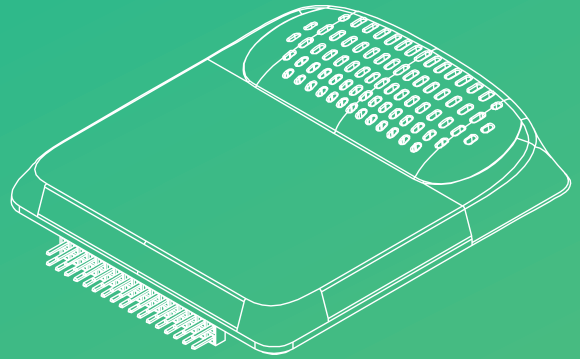
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# pi-topPULSE

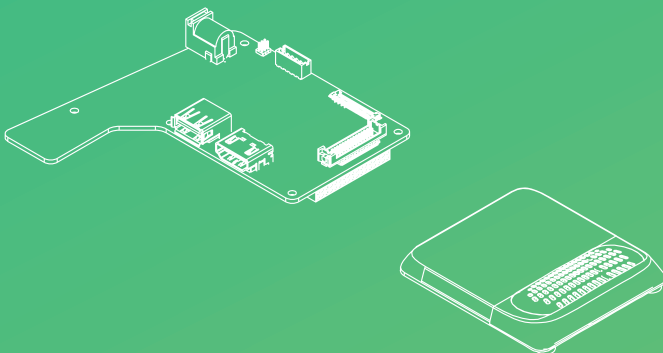
## Getting Started



### Hardware Set Up

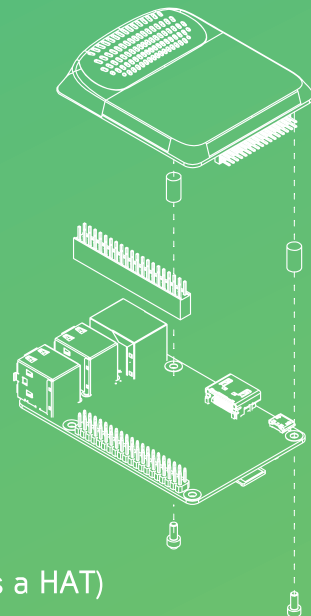
#### In pi-top Modular Rail

- 1 Plug **pi-topPULSE** into the HUB. Ensure all pins are correctly aligned to avoid damage or malfunction. You may need to reboot your **pi-top**.



#### With Raspberry Pi 3 (as a HAT)

- 1 Connect the header into **pi-topPULSE**.
- 2 Connect the Mag Spacers to the bottom mounting holes of Raspberry Pi as shown below.
- 3 Place **pi-topPULSE** onto Raspberry Pi headers, ensure all pins are correctly aligned.



### Software Integration

To finish setting up **pi-topPULSE** (for **pi-top** Mag Rail or as a HAT) please go to:

<https://github.com/pi-top/pi-topPULSE>

# pi-topPULSE

## Technical Specifications

RGB LEDs

7x7 grid, illuminated speaker, underside ambient

Speaker

2W with I2S amplifier

Microphone

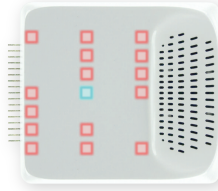
200Hz to 11KHz response, Automatic Gain Control (AGC)

## Features

- Programmable using Python
  - Amazon's cloud-based voice service compatible
- Raspberry Pi 3 HAT compatible

# Lesson Plans to explore in pi-topCODER

## FLAPPY ASTRONAUT



## SNAKE



## TETRIS

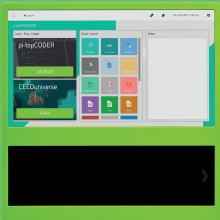


## PULSE LIGHT SHOW



## MORE LESSON PLANS IN pi-topCODER

pi-topPULSE with Amazon Alexa



## pi-topCEED

The modular all-in-one Raspberry Pi powered desktop with pi-topOS



## pi-top

The build-it-yourself Raspberry Pi powered laptop with pi-topOS



Adjustable Viewing Angles



14" HD Screen



Modular Components



10+ Hour Battery Life



13.3" HD Screen



Modular Components

Don't have **pi-topOS**?  
Free download at:

[www.pi-top.com/download](http://www.pi-top.com/download)

Access project based worksheets in **pi-topCODER** to use your **pi-topPULSE** to its fullest.

### We're here to help

Have a question?

Chat with experts online by emailing us at:

[support@pi-top.com](mailto:support@pi-top.com)