



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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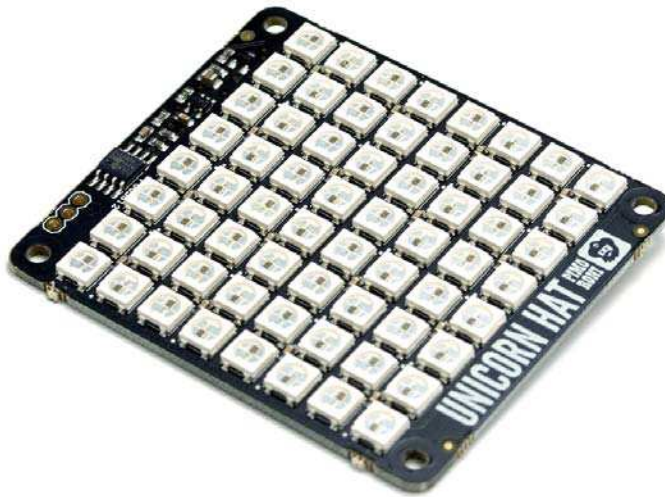
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Unicorn HAT

PIM054



What's going to protect your beloved Raspberry Pi from an onslaught of rainbow-coloured fusion? That's right, it's Unicorn HAT.

Sporting a matrix of 64 (8 x 8) RGB LEDs and powered directly from the Pi, this is the most compact pocket aurora available.

Unicorn HAT provides a wash of controllable colour that is ideal for mood-lighting, 8x8 pixel art, persistence of vision effects, status indications, or just blasting colour into your surroundings.

The MagPi said that Unicorn HAT was *"one of the coolest HATs around"*

Features

- 64 RGB LEDs (WS2812B)
- LED data driven via DMA over PWM
- Compatible with Raspberry Pi 3, 2, B+, A+, Zero, and Zero W
- Python library
- Comes fully assembled

Software

We've put together a Unicorn HAT Python library to make it a breeze to use, including lots of beautiful examples of what it can do.

Notes

- **Warning:** WS2812 LEDs are bright enough to cause eye pain, do not look at them directly when brightly lit. We recommend the use of a diffuser.
- **Photo-sensitivity warning:** flashing, strobing, and patterns of lights may cause epileptic seizures. Always take care and immediately stop using if you feel unwell (dizziness, nausea, affected vision, eye twitching, disorientation).
- **Power:** Unicorn HAT requires a >2A microUSB power supply for your Pi. We recommend the official Raspberry Pi power supply.
- **Compatibility (audio):** as Unicorn HAT uses PWM and GPIO18, it will interfere with analogue audio playback (random colour patterns and flickering). HDMI should work just fine! :D