



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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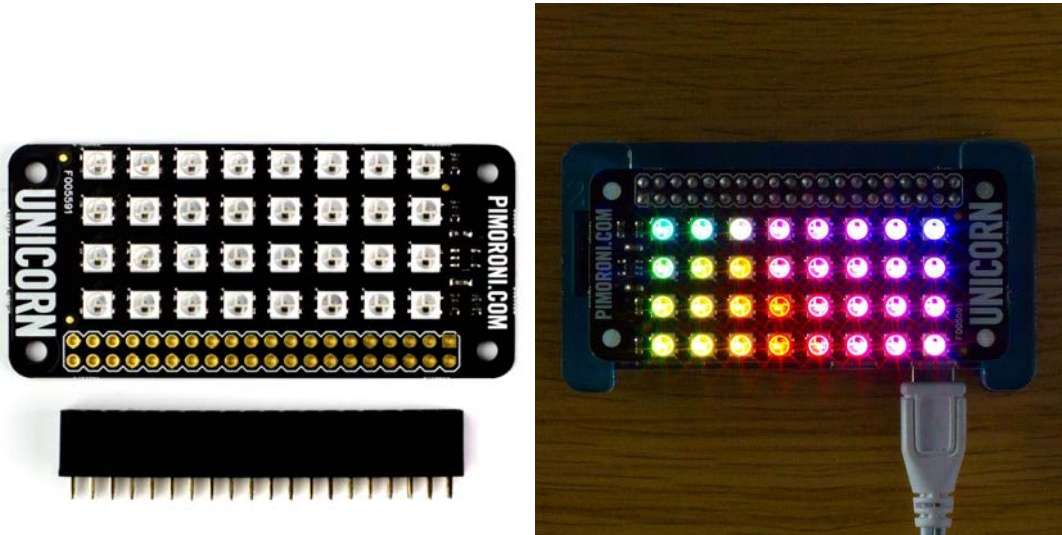
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## Unicorn pHAT PIM168



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

Sporting a matrix of 32 (8 x 4) RGB LEDs and powered directly from the Pi, this is the most compact pocket aurora available.

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

### Features

- 32 RGB LEDs (SK6218 - 3.5mm x 3.5mm)
- LED data driven via DMA over PWM
- Compatible with Raspberry Pi 3, 2, B+, A+, Zero, and Zero W
- Python library
- **Female header requires soldering**

## Software

Unicorn pHAT uses the same Python library as Unicorn HAT, so it's super-easy to use, should automatically detect that you're using the pHAT and includes some examples written specially for Unicorn pHAT.

## Notes

- **Warning:** SK6218 LEDs are bright enough to cause eye pain, do not look at them directly when brightly lit. We recommend using Unicorn pHAT at lower brightness levels.
- **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 pHAT works best with a >2A microUSB power supply for your Pi. We recommend the official Raspberry Pi power supply.
- **Compatibility (audio):** as Unicorn pHAT uses PWM and GPIO18, it will interfere with analogue audio playback (random colour patterns and flickering). HDMI should work just fine! :D