



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



# Display-O-Tron HAT

PIM113



Great for including a colourful character display and button inputs on your Raspberry Pi based projects!

Includes a 16x3 character LCD display, 6-zone RGB LED backlight, bar graph, and six capacitive touch buttons all in one slim package.

It's ideal for controlling your internet radio or home automation projects.

## Features

- 16x3 character LCD display (full ASCII character set and eight custom glyphs)
- Fully controllable six zone RGB backlight
- Six bright white bar graph LEDs (individually dimmable)
- Six capacitive touch buttons
- Power, I2C, SPI, UART, PWM, and five GPIO pins broken out
- SN3218 LED matrix driver chip (drives the RGB backlight)
- Microchip CAP1166 capacitive touch driver chip
- Compatible with Raspberry Pi 3, 2, B+, A+, Zero, and Zero W
- Python library <https://github.com/pimoroni/dot3k>
- Comes fully assembled (breakout pins require soldering)

## Software

Our Display-O-Tron Python library will get you going in a jiffy, and makes controlling Display-O-Tron HAT really easy. <https://github.com/pimoroni/dot3k>

We've included examples showing you how to use the backlight, bar graph LEDs, and touch buttons, as well as more advanced examples showing you how to create menus, games and even an internet radio!

## Notes

If you want to keep your Pi in a case, we recommend the Pibow Coupé case as it will allow you to still use the capacitive touch buttons.