



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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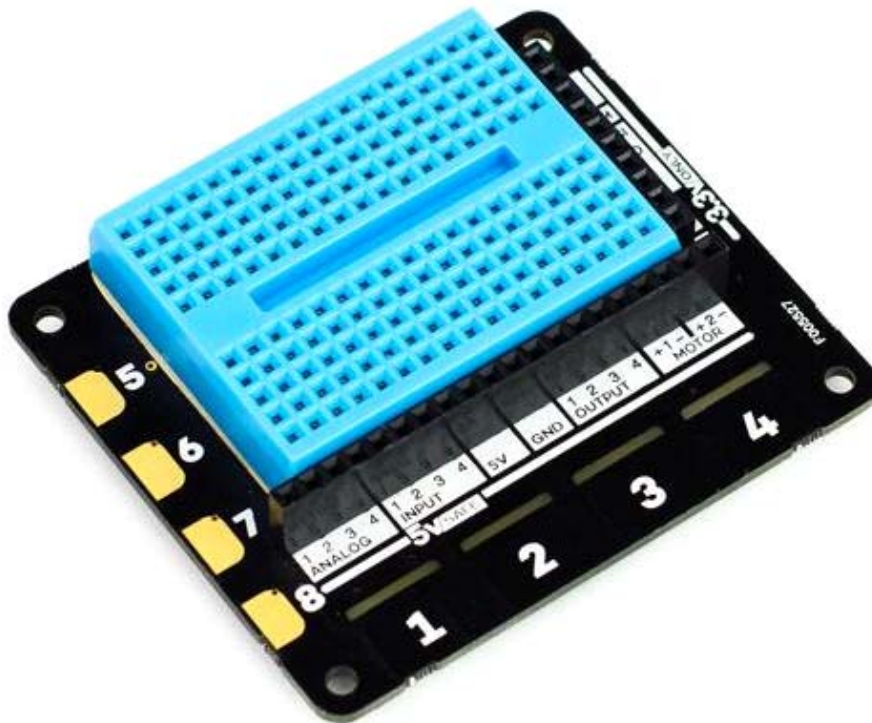
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## Explorer HAT Pro

PIM082



Explorer HAT Pro adds a lot of useful tools to your Raspberry Pi.

It has digital inputs and outputs, capacitive touch pads, croc. clip compatible pads, coloured LEDs, analog inputs, motor drivers, and a mini breadboard for prototyping your projects

Great for little robots, games, science experiments, exploring small electronic circuits, and interacting with your Pi.

We've put together a handy little Explorer HAT Pro parts kit with everything you need to get started building circuits including LEDs, dials, a buzzer, and even a temperature sensor! Explorer HAT Pro also goes great with our no-soldering-required micro metal gearmotors and our STS-Pi robot kit.

## Features

- Four buffered 5V tolerant inputs (perfect for Arduino compatibility)
- Four powered 5V outputs (up to 500mA total across all four channels)
- Four capacitive touch pads (labelled 1, 2, 3, 4)
- Four capacitive crocodile clip pads (labelled 5, 6, 7, 8)
- Four coloured LEDs (red, green, blue, and yellow)
- Four analog inputs
- Two H-bridge motor drivers (up to 200mA per channel; soft PWM control)
- A heap of useful (unprotected) 3v3 goodies from the GPIO
- A mini breadboard on top!
- Compatible with Raspberry Pi 3, 2, B+, A+, Zero, and Zero W
- Python library
- Comes fully assembled

## Software

We've made it super-quick to get to grips with Explorer HAT Pro with our Python library, including a bunch of examples to show off all of Explorer HAT Pro's functions.

## Notes

- The inputs use a 5-channel buffer that will accept anything from 2V-5V as logic high
- Mini breadboard had 170 points, 17x5 per half of the breadboard