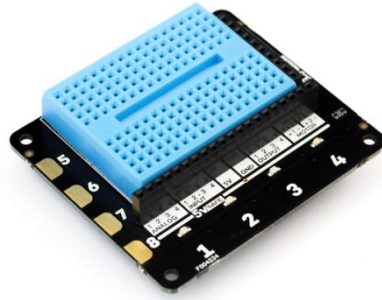


# Explorer HAT Pro



## The Explorer HAT Pro is the perfect prototyping side-kick for your Raspberry Pi!

We've added a heap of useful input and output options that will take your projects to the next level. Great for driving motors, using analog sensors, interfacing with 5V systems, and touch (even fruit based!) interfaces.

It's compatible with Raspberry Pi 2, B+, and A+ and comes fully assembled.

Features:

- Four buffered 5V tolerant inputs
- Four powered 5V outputs (up to 500mA!)
- Four capacitive touch pads
- Four capacitive crocodile clip pads
- Four coloured LEDs
- Four analog inputs
- Two H-bridge motor drivers
- A heap of useful (unprotected) 3v3 goodies from the GPIO
- A mini breadboard on top!

**5V tolerant inputs** - Hook up your Pi to accept input from 5V systems (like Arduino Uno/Leonardo or 5V Trinkets). We've used a 5-channel buffer that will accept anything from 2V-5V as logic high.

**5V powered outputs** - The onboard darlington array can supply up to 500mA per channel (but you'll be limited to driving around 1A total from the board). Ideal for stepper motors, solenoids, and relays.

**Eight capacitive inputs** - Four along the front edge for touch input (labelled 1, 2, 3, 4) and four up the side for attaching crocodile clips to objects (such as fruit, or tin foil) for experimentation!

**Four coloured LEDs** - Independently controllable LEDs (red, green, blue, and yellow) that make great status indicators.  
Four analog inputs - A tidy way to integrate analog signals into your project.

**Two H-Bridge motor drivers** - Drive two 5V motors bidirectionally with up to 200mA per channel. Ideal with our micro-metal gear-motors to create the perfect little buggy! You can even soft-PWM for full speed control.

**Full Python library, documentation and examples** - Head on over to our GitHub to find a Python library, examples, documentation and a brief introduction to Explorer HAT: <https://github.com/pimoroni/explorer-hat>