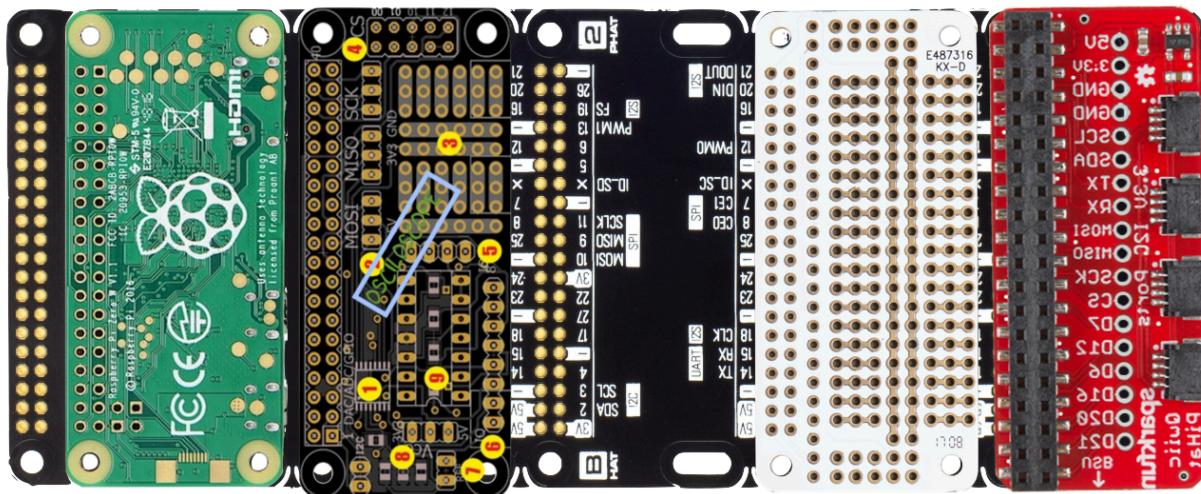
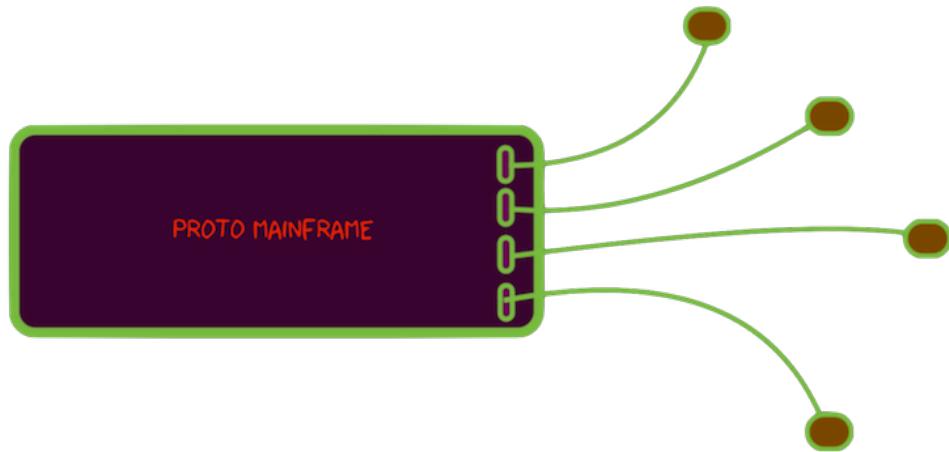


RASPBERRY PRODUCE V.7

Unifying product for store is the openProto-mainframe
Use it to go from concept → automation → physical machine



New class of portable PC & dev-env—built for prototyping; zero as PC with bus: GPIO bus + I2C addressed

Focus brand on this architecture to diff from yet another bot shop

Site is sectioned into dev-env stages w/ product box for each prototyping stage

BOARD EXPLORER [HERE](#) [GITHUB](#)

Raspberry Pi Pinout

Type

- ADC
- Audio
- COM
- DAC
- Display
- Gesture
- GPS
- Instrument
- IO
- IOT
- LED
- MCU
- Motor
- Multi
- Network
- Other
- Power
- Radio
- Relay
- RTC
- Sensor
- Touch
- USB

Manufacturer

- 4tronix
- AB Electronics
- Adafruit
- Fe-Pi
- IQaudio
- JustBoom
- Mime Industries
- Other
- Pi Supply
- Pi-Top
- PiBorg
- PiHut
- Pimoroni
- Pololu
- Raspberry Pi
- RasPiO
- Ryanteck
- Seeed
- Sixfab
- SparkFun
- The Wonky Resistor Co.
- Uptronics
- UUGear
- Waveshare

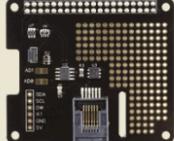
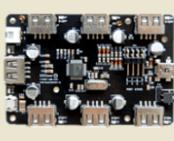
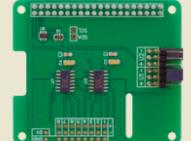
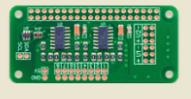
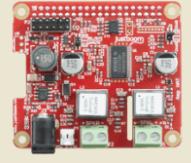
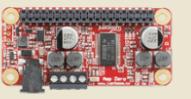
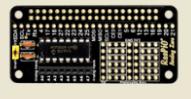
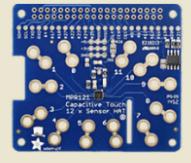
Form Factor

- Custom
- HAT
- PHAT
- USB

Ground DPI GPCLK JTAG 1-WIRE PCM SDIO I2C SPI UART WiringPi
[« Return to the Raspberry Pi GPIO Pinout](#)

Raspberry Pi HATs, pHATs & Add-ons

Click on a HAT, pHAT or add-on for more details and to see which pins it uses!

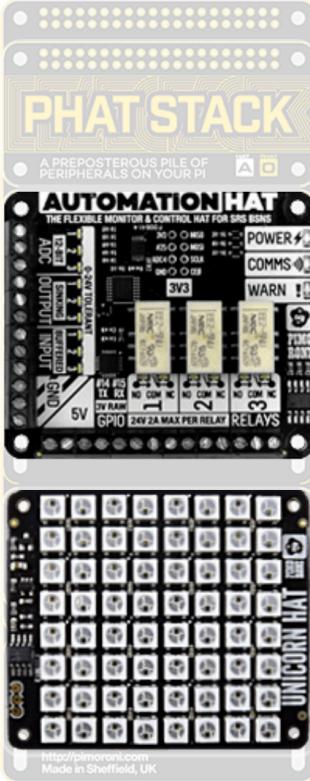
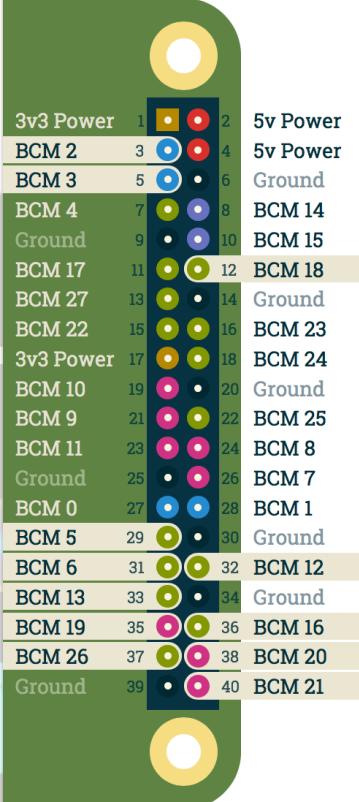
			
1 Wire Pi Plus	1 Wire Pi Zero	16x2 Character LCD	3G/4G/LTE Base Shield
			
7-port USB hub	ADC Differential Pi	ADC Pi Plus	ADC Pi Zero
			
ADC-DAC Pi Zero	Amp HAT	Amp Zero	Analog Zero
			
Arcade Bonnet	Automation HAT	Automation pHAT	Blink!
			
Button SHIM	Capacitive Touch HAT	Carberry	Cirrus Logic Audio Card

MATRIX OF NON-CONFLICTING GPIO OPTIONS **CALCULATOR**

[HTTPS://PINOUT.XYZ](https://pinout.xyz)

 **Raspberry Pi Pinout** **pHAT Stack Configurator**
Find out which permutations of pHATs and HATs will work on your Pimoroni pHAT Stack.

Great combo! Grab a pHAT Stack and try it on your Pi!



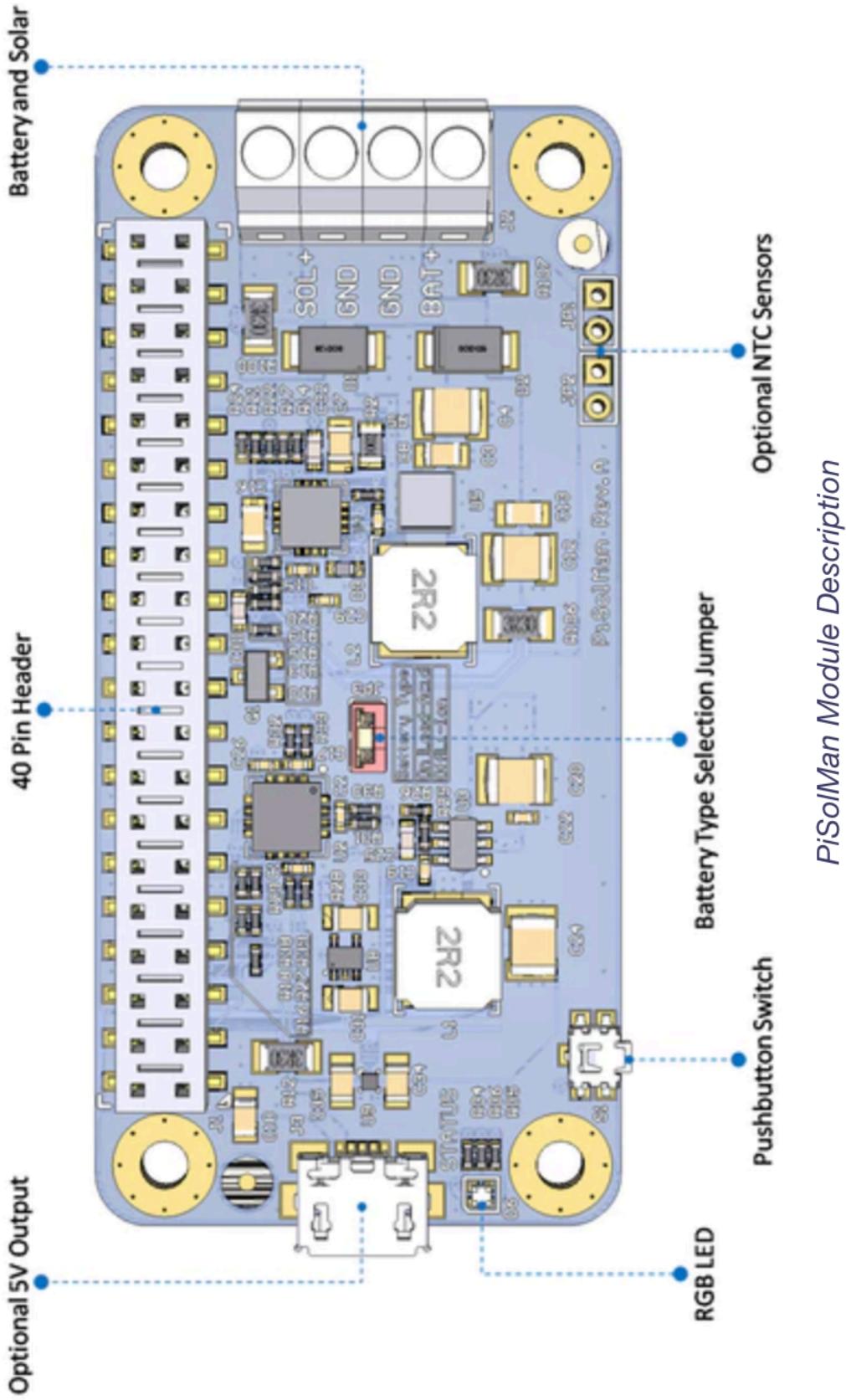
None

Automation HAT
An all-in-one home automation and control board

Unicorn HAT
64 blindingly bright RGB LEDs on a single HAT

POWER MODULES

Panel



V2 BRAIN FOR VILLAGE BOOTSTRAPPING PROJECT

- + Sun → fluid or lithium
- + VESC lithium → mechanical
- + Cyclone fluid → mechanical

India does integration on PCB & prototype village

PACKAGING AESTHETIC

Wood frame like Zebra,
Fits IPAD case with folder magnet latch
or cardboard of same

Optional Fullsize Breadboard **5.5 cm** x 17 cm On opposing page with
ribbon to T Cobbler



BOX OF ZERO SETUP STUFF

OS

3x MicroSD with OS installed with dev-env
μSD 70MB/s flash cards

CABLES

Micro usb to USB x 2

POWER

Wallwart to μusb 5V

HEADERS

Start here: <https://learn.adafruit.com/introducing-the-raspberry-pi-zero/gpio-header-options/>

Female GPIO

Female GPIO short

Female right-angled

MISC

Maybe's

Banana for power supply

banana to clips

Alligator-to-breadboard wires

SOLDERING BOXEN

STATIONARY

FX-888D \$110 Adafruit \$100 Sparkfun

There is a chinese knockoff—some of decent quality. It's hard to tell by looking at them

Could offer both

tip [tips](#)

China tips \$.50 - \$2

FX-888D 5star 40 order [14 piece set](#) \$11.42

Solder

Flux

Brass sponge

Spring pop Solder sucker

MOBILE

3D printed iron & extractor kit

Good for 300 solders, 30 minutes

<https://learn.adafruit.com/usb-rechargeable-cordless-soldering-iron/overview>

Hakko FX-901 + USB charger

PowerBoost 500C Charger

Fume extractor

<https://learn.adafruit.com/usb-rechargeable-mini-solder-fume-extractor?view=all>

PowerBoost 500 Charger

500 mAh Lithium Polymer battery

Breadboard-friendly SPDT Slide Switch

Digi-Key part #259-1576-ND

2 (two) #4-40 x 1/2 inch pan head machine screws and matching nuts

Activated carbon filter Weller WSA350F or MCM Electronics

#21-7961