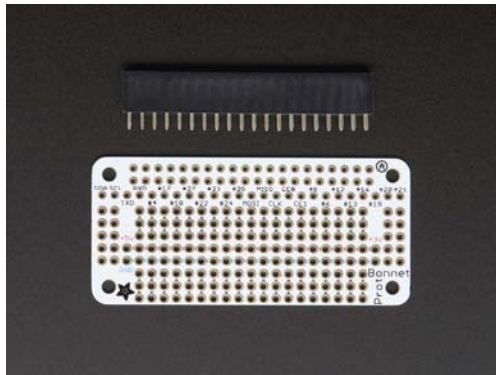# Adafruit Perma Proto Bonnet Mini Kit

PRODUCT ID: 3203

- # Description

Design your own Bonnet or pHAT, attach custom circuitry and otherwise dress your Pi Zero with this jaunty prototyping Bonnet kit!

To add to the Adafruit Bonnet party, we have this Perma-Proto inspired plug in daughter board. It has a grid of 0.1" prototyping soldering holes for attaching chips, resistors, LED, potentiometers and more. The holes are connected underneath with traces to mimic the solderless breadboards with which you're familiar. There's also long power strips for +3V, +5V and Ground connections to the Pi. Near the top we break out nearly every pin you could want to connect to the Pi (#26 didn't quite make the cut).

The **Perma-Proto Bonnet** comes with a printed circuit board and a single 2x20 GPIO Header for Raspberry Pi to put your Perma-Proto on top of your Raspberry Pi Zero (like a nice little bonnet...). Unlike our Perma-Proto HATs, this design does not include an EEPROM, so you can 'stack' it with other Bonnets and pHATs without worrying about an EEPROM address collision.

You can customize your Perma-Proto setup using a standard 2x20 stacking header or extra tall 2x20 stacking header. You can also swap out the 2x20 header with a slim 2x20 type if you want it to sit closer to the Pi, or an extra tall one if you want it to sit above the USB/Ethernet ports.

A bit of light soldering is required to attach the header to the PCB but it's easy work.

This bonnet is *designed* for use with Raspberry Pi Zero but you can put on top of *any* Raspberry Pi with a 2x20 connector, it will just not stick out as far. We also offer a full 'HAT' sized version for Pi A+, B+, Pi 2 & 3.

Raspberry Pi Zero not included!

- # **Technical Details**

Product Dimensions: 65.1mm x 30.1mm x 1.5mm / 2.6" x 1.2" x 0.1"

Product Weight: 5.3g / 0.2oz