Pico W PiCowBell Case
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https://learn.adafruit.com/pico-w-picowbell-case

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Overview

Build your next Internet of Things (IoT) project with a Raspberry Pi Pico W and a PiCowBell!

You can use Adafruit’s PiCowbell Proto board () for the Raspberry Pi Pico to make your project plug-and-play.

It features a built-in reset button, a STEMMA QT port and lots of pins for additional add-ons.

Our 3D printed case makes it easy to wall mount so you can log sensor data with an all-in-one package.
There's access to the USB port and the Pi Cow Bells Stemma QT port for easily connecting sensors over STEMMA QT.

On the back is an opening for the built-in reset button so you can press it without having to open the case.

The top cover features slots for mounting up to two STEMMA QT sensor boards.

The back has an opening for the prototyping area so you can pass through additional wires.

To make your projects modular, you can use short socket headers which keeps your project fairly low-profile.
Adafruit's WipperSnapper now has support for the Raspberry Pi Pico W, so you can build projects without having to write any code.

With WipperSnapper, you can easily set up sensors and start logging data.

Quick Start: Pico W with WipperSnapper

Parts

**Adafruit PiCowbell Proto for Pico - Reset Button & STEMMA QT**
Ding dong! Hear that? It's the PiCowbell ringing, letting you know that the new Adafruit PiCowbell Proto is finally in stock and ready to assist your

https://www.adafruit.com/product/5200

**Short Socket Headers for Raspberry Pi Pico - 2 x 20 pin Female**
These Socket Headers alone are, well, lonely. But pair them with the Raspberry Pi Pico, and...

https://www.adafruit.com/product/5585
Short Plug Headers for Raspberry Pi Pico - 2 x 20 Male Headers
These two Short Plug / Male Headers alone are, well, lonely. But pair them with the
https://www.adafruit.com/product/5584

Raspberry Pi Pico W
The Raspberry Pi foundation changed single-board computing when they released the Raspberry Pi computer, now they're ready to...
https://www.adafruit.com/product/5526

Adafruit AHT20 - Temperature & Humidity Sensor Breakout Board
The AHT20 is a nice but inexpensive temperature and humidity sensor from the same folks that brought us the DHT22. You can take...
https://www.adafruit.com/product/4566

Adafruit IO+ Subscription Pass – One Year
The all-in-one Internet of Things service from Adafruit you know and love is now even better with IO+. The 'plus' stands for MORE STUFF! More feeds, dashboards,...
https://www.adafruit.com/product/3792

1 x USB cable
6" A/MicroB

<table>
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<th>Item</th>
<th>Description</th>
<th>Link</th>
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<tr>
<td>1 x <strong>Stemma QT Cable</strong></td>
<td>STEMMA QT / Qwiic JST SH 4-Pin Cable - 50mm Long</td>
<td><a href="https://www.adafruit.com/product/4399">https://www.adafruit.com/product/4399</a></td>
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You can choose what length is best for you using STEMMA QT / Qwiic cables.

### 3D Print

**Parts List**

STL files for 3D printing are oriented to print "as-is" on FDM style machines. Parts are designed to 3D print without any support material. Original design source may be downloaded using the link below.

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**Download STLs**

**Edit Design**

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**Slice with settings for PLA material.**

The parts were sliced using CURA using the slice settings below.

- PLA filament 220c extruder
- 0.2 layer height
- 10% gyroid infill
- 60mm/s print speed
- 60c heated bed
Solder Headers

The shorter side of the plug headers are soldered to the Pico W.

The socket headers are soldered to the PiCowbell board with the socket side pointing up as shown in the picture.
Mount Sensors

Use M2.5 screws and nuts to secure sensors to the case.
Mount Pico W

Align the board to the USB port opening inside the enclosure. Two of the standoffs feature cutouts to allow the USB port to fit into place.

The Lid is slightly tapered. Press fit the lid with the smaller side onto the the case.
Command hooks are great for easily mounting the case on the wall so you won’t need to drill any holes.

We hope this inspires you to check out Adafruit’s WipperSnapper and the PiCowbell for your next IoT project!