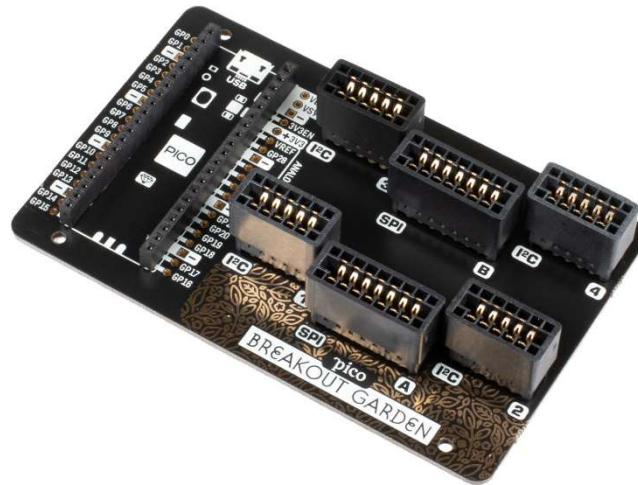


Pico Breakout Garden Base

PIM549



An easy, solderless, swappable way to use breakouts with your Raspberry Pi Pico - add up to six Pimoroni breakouts (4 x I2C and 2 x SPI) to the sturdy slots and get coding and creating!

Pico Breakout Garden Base sits underneath your Pico and **lets you connect up to six of our extensive selection of Pimoroni breakouts** to it. Whether it's environmental sensors so you can keep track of the temperature and humidity in your office, a whole host of little screens for important notifications and readouts, and, of course, LEDs. Scroll down for a list of breakouts that are currently compatible with our C++/MicroPython libraries!

As well as a **labelled landing area for your Pico**, there's also a **full set of broken out Pico connections**, in case you need to attach even more sensors, wires, and circuitry. We've thrown in some rubber feet to keep the base nice and stable and to stop it from scratching your desk, or there are M2.5 **mounting holes** at the corners so that you can bolt it onto a solid surface if you prefer.

The six sturdy black slots are edge connectors that connect the breakouts to the pins on your Pico. There's two slots for SPI breakouts (like our 0.96" LCD Breakout or 1.12" SPI OLED Breakout), and four slots for I2C breakouts. Because I2C is a bus, you can use multiple I2C devices at the same time, providing they don't have the same I2C address (we've made sure that all our breakouts have different addresses, and we print them on the back of the breakouts so they're easy to find).

As well as being a handy way to add functionality to your Pico, Breakout Garden is also very useful for prototyping projects without the need for complicated wiring, soldering, or breadboards, and you can grow or change up your setup at any time.

If you would prefer your breakout setup to be a little more compact, we have a three slot Pico Breakout Garden Pack coming soon.

Please note that breakouts are sold separately! A Raspberry Pi Pico is not included - click here if you'd like to buy one.

Features

- Six sturdy edge-connector slots for Pimoroni breakouts
- 4x I2C slots (5 pins)
- 2x SPI slot (7 pins)
- Landing area with female headers for Raspberry Pi Pico
- 0.1" pitch, 5 or 7 pin connectors
- Broken-out pins
- Reverse polarity protection (built into breakouts)
- 99% assembled - just need to stick on the feet!
- Compatible with Raspberry Pi Pico/Pico W
- Schematic

About Pico Breakout Garden

Because of the way that I2C (the protocol that Breakout Garden uses) works, it doesn't matter which slot on the Breakout Garden that you plug your breakout into. Each I2C device has an address (you'll see it on the back of each breakout) that it uses to identify itself to other I2C devices, so it's effectively saying "Hey, it's me, Bob!"

We've built reverse polarity protection into our Pimoroni breakouts, meaning that there's no magic blue smoke if you accidentally plug one in the wrong way round. However, the correct way to plug them in is to make sure that the labels on the pins on your breakout and the labels on each Breakout Garden slot match up. The markings on the base will show you which way round to plug in your Pico - just match up the USB port with the markings on the board.

