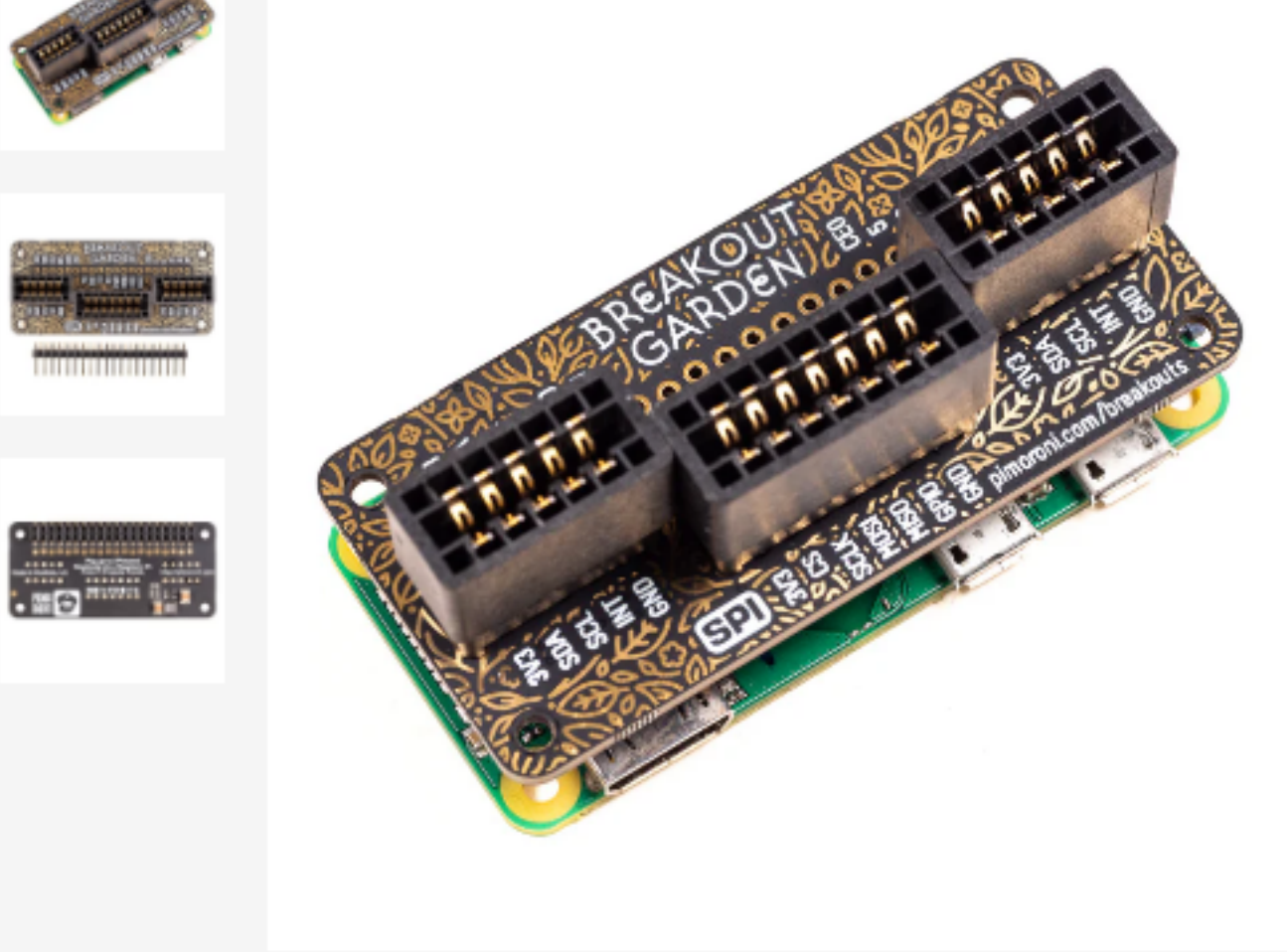




Breakout Garden Mini (I2C + SPI) by Pimoroni



Now with SPI! The easiest way to use breakouts with your Raspberry Pi. There's no soldering required, just pop up to three [Pimoroni breakouts](#) (2xI2C, 1xSPI) into the slots on Breakout Garden Mini and get started coding and creating.

Grow your projects on Breakout Garden. It's ideal for prototyping projects without the need for complicated wiring, soldering, or breadboards, and you've always got the option of changing your setup thanks to the way that Breakout Garden works.

The three sturdy slots on Breakout Garden are edge connectors that connect Pimoroni breakouts to the pins on your Raspberry Pi. This new version of Breakout Garden has an SPI slot for Pimoroni SPI breakouts like our [0.96" LCD Breakout](#) or [1.12" SPI OLED Breakout](#).

It's also got two I2C slots for Pimoroni I2C breakouts. Because I2C is a bus, you can use multiple I2C devices at the same time, providing they don't have the same address (we've made sure that all of our breakouts have different addresses).

Features

- Three sturdy edge-connector slots for [Pimoroni breakouts](#)
- 2x I2C slots (5 pins)
- 1x SPI slot (7 pins)
- 0.1" pitch, 5 or 7 pin connectors
- Broken-out pins (1x10 strip of male header included)
- Reverse polarity protection (built into breakouts)
- pHAT format board
- Compatible with all 40-pin header Raspberry Pi models

Using Breakout Garden

Because of the way that I2C (the protocol that Breakout Garden uses) works, it doesn't matter which slot on Breakout Garden Mini you plug your Pimoroni 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 to your Raspberry Pi, "Hey, it's me, Bob!"

SPI is a faster, higher-throughput protocol for talking to devices like displays. The SPI slot on Breakout Garden Mini uses chip select 1 (BCM 7) and BCM 19 for the GPIO pin (used for things like LCD backlights).

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 Mini slot match up.

We've also broken out a load of useful pins along the top of Breakout Garden Mini, so you can connect other devices and integrate them into your Breakout Garden projects. If you have [Pimoroni breakouts](#) to which you've already soldered headers, then you can use this top row of pins to use them alongside other breakouts on Breakout Garden Mini.

Software

Head over to the [Breakout Garden GitHub repo](#) and give our automagic installer a go. Just pop a few breakouts into Breakout Garden Mini, run the installer, and SHAZAM!, the software for the appropriate breakouts will be installed. We've also got [a few nice examples](#) to show you what's possible.

25 customer reviews

★★★★☆
a year ago

by John about [Breakout Garden Mini \(I2C + SPI\)](#) via [REVIEWS.io](#)

★★★★★
2 years ago

A great little hat that makes playing with sensors hassle free and easy.

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by Satoru about [Breakout Garden Mini \(I2C + SPI\)](#) via [REVIEWS.io](#)

★★★★★
3 years ago

What a great product! Instead of faffing about with soldering or a breadboard I went from idea to working

by Timothy about [Breakout Garden Mini \(I2C + SPI\)](#) via [REVIEWS.io](#)

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4 years ago

Not a lot to say! Plug 'n' Play! :)

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Great entry level breakout garden hat. Installation was a breeze

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Really easy for testing sensors!

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Good value for money

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Works great! Wish there was a version with horizontal sockets for a lower overall height when used along with

by Jonathan about [Breakout Garden Mini \(I2C + SPI\)](#) via [REVIEWS.io](#)

★★★★★
4 years ago

Excellent way to connect sensors etc. to a Raspberry Pi without needing to solder anything! It's plug and play -

by Anonymous about [Breakout Garden Mini \(I2C + SPI\)](#) via [REVIEWS.io](#)

★★★★★
5 years ago

Small but perfectly formed, this is a great bit of kit to have in your development toolbox.

by Anonymous about [Breakout Garden Mini \(I2C + SPI\)](#) via [REVIEWS.io](#)

★★★★☆
5 years ago

great tool for trying out sensors with Pi ZW -- plug and play! a little insecure gripping the I2C devices - if you bump it while carrying,

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PIM478

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“Very handy for testing and setting up the breakouts without having to solder on a header. The SPI section has me doing some head scratching though. I have yet to get my 1.3" SPI Color LCD working. It needs better documentation on the SPI setup and use. The installer will only hunt for i2c connected devices.”

★★★★★ Anonymous

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