



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



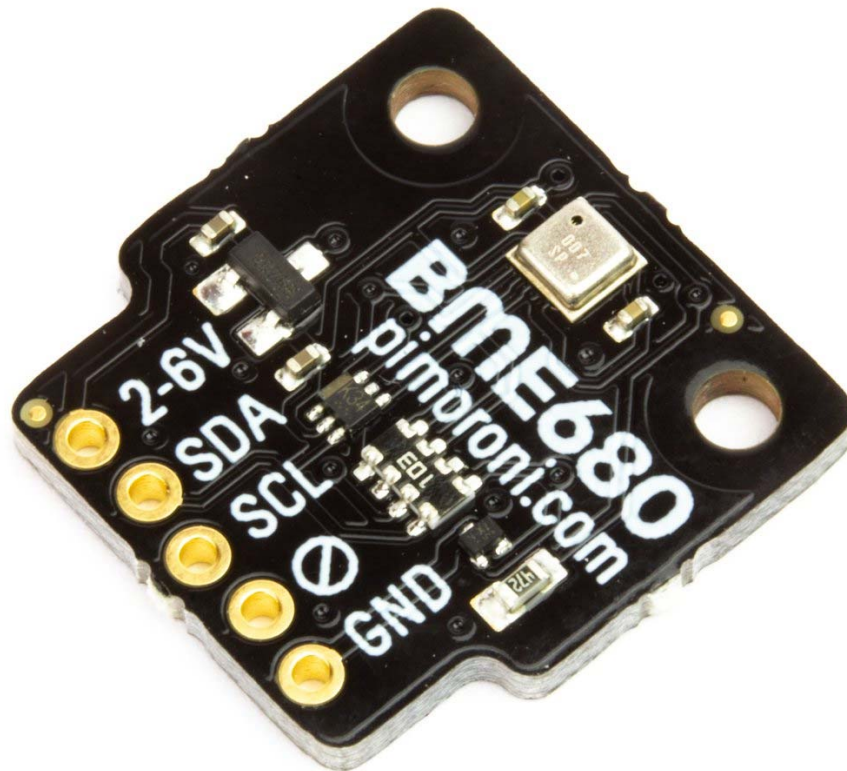
Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





BME680 Breakout - Air Quality, Temperature, Pressure, Humidity Sensor

- PIM357

The state-of-the-art BME680 breakout lets you measure temperature, pressure, humidity, and indoor air quality, and is Raspberry Pi and Arduino-compatible!

Use this breakout to monitor every aspect of your indoor environment. Its gas resistance readings will react to changes in volatile organic compounds and can be combined with humidity readings to give a measure of indoor air quality.

Want to get an idea of whether there's adequate ventilation in your bedroom, your workshop, or workplace? Set up a BME680 on a Pi Zero W and have it log sensor readings to a file, or stream live data to a web service like adafruit.io or freeboard.io.

Features

- Bosch BME680 temperature, pressure, humidity, air quality sensor
- I2C interface, with address select via ADDR solder bridge (0x76 or 0x77)
- 3.3V or 5V compatible
- Raspberry Pi-compatible pinout (pins 1, 3, 5, 7, 9)
- Compatible with Raspberry Pi 3B+, 3, 2, B+, A+, Zero, and Zero W
- Python library
- Datasheet

Kit includes

- BME680 breakout
- 1x5 male header
- 1x5 female right angle header

We've designed this breakout board so that you can solder on the piece of right angle female header and pop it straight onto the bottom left 5 pins on your Raspberry Pi's GPIO header (pins 1, 3, 5, 6, 9). The right angle header also has the advantage of positioning the breakout away from the Pi's CPU so as to minimise radiated heat.

Software

As well as the C library provided by Bosch, we've put together a Python library (with a quick and painless one-line-installer) to use with your BME680, making it straightforward to combine it with our other boards (why not use a Blink! or Unicorn pHAT to visualise air quality in real time?)

Our software does not support Raspbian Wheezy.

Notes

- In our testing, we've found that the sensor requires some burn-in time (at least 20 minutes) and that readings may take a couple of minutes to stabilise after beginning measurements
- The solder pads (marked ADDR) can be bridged to change the I2C address from the default of 0x76 to 0x77, meaning that you can use up to two sensors on the same Raspberry Pi or Arduino
- Dimensions: 19x19x2.75mm (LxWxH)

