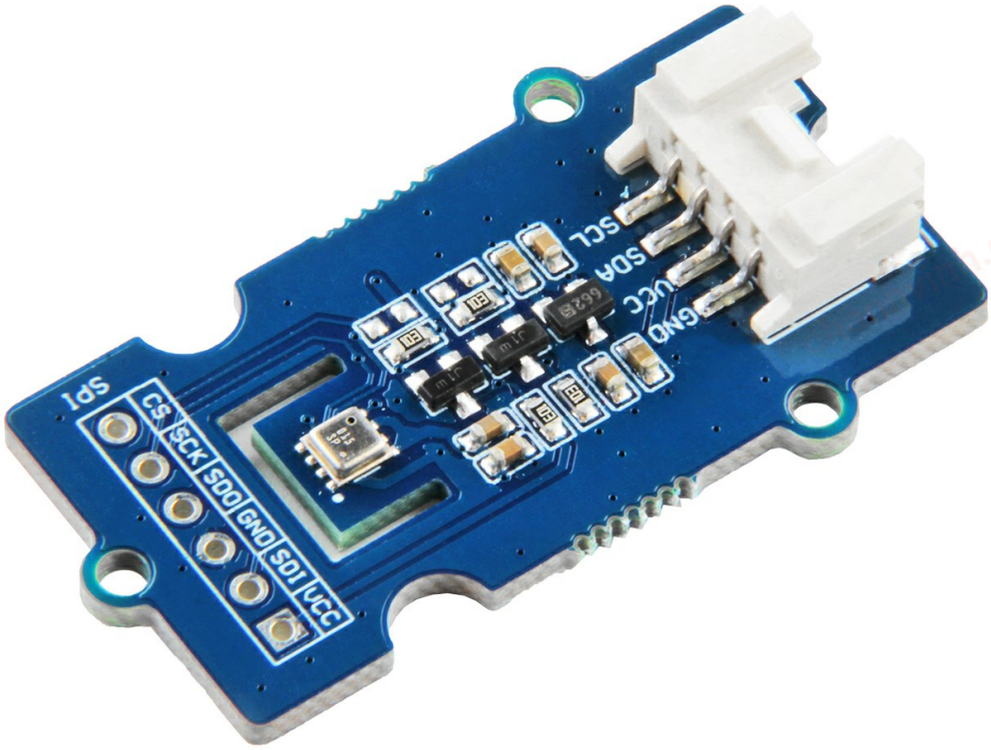
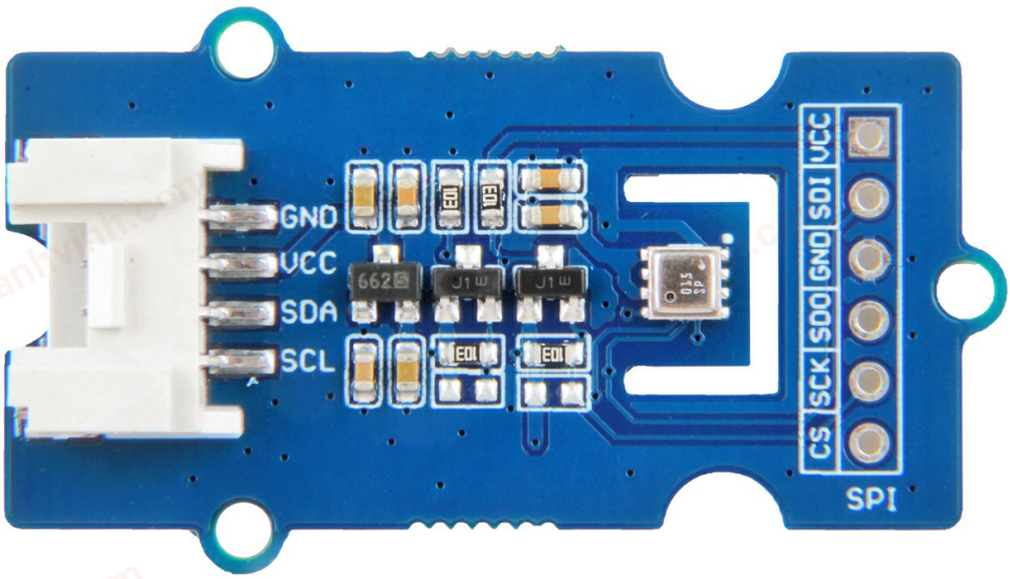
chanhvinh.com

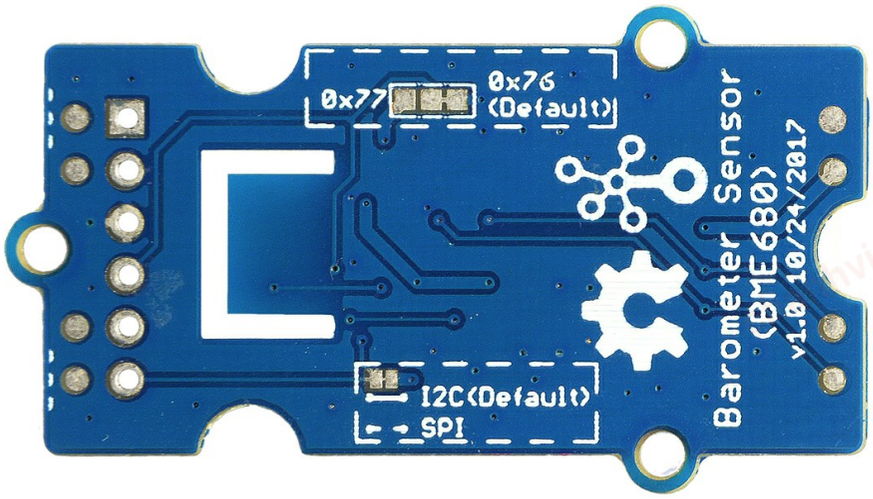
Subscribe to our newsletter & get $5 Bazaar coupon !



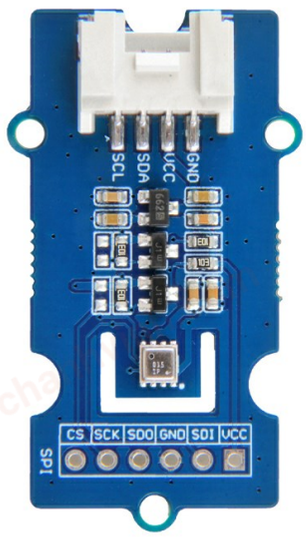


Downloaded from Arrow.com.

chanhvinh.com

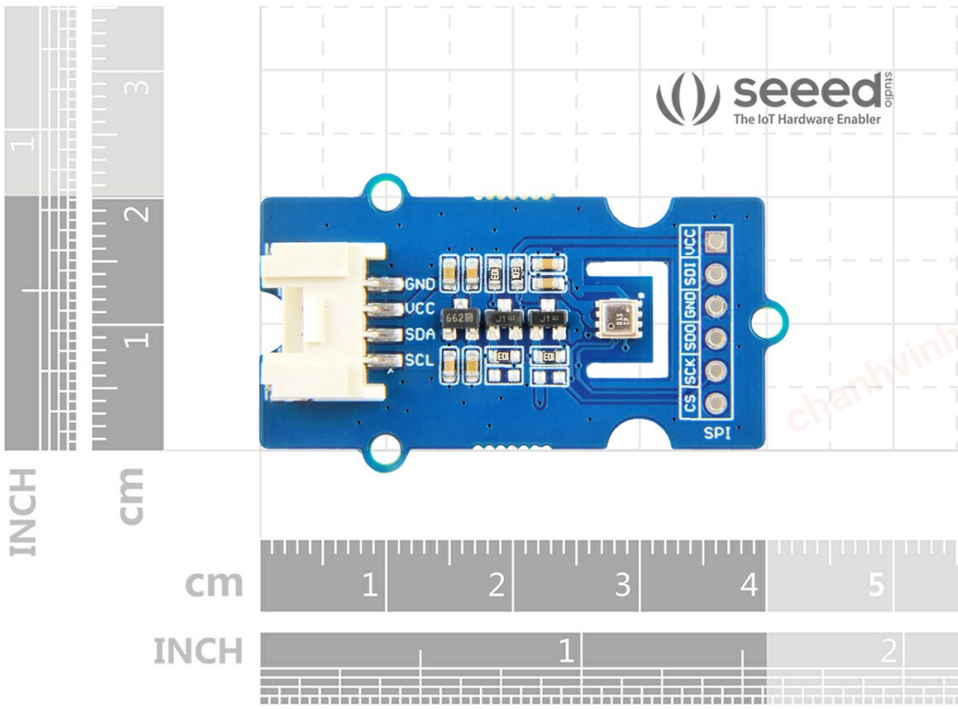


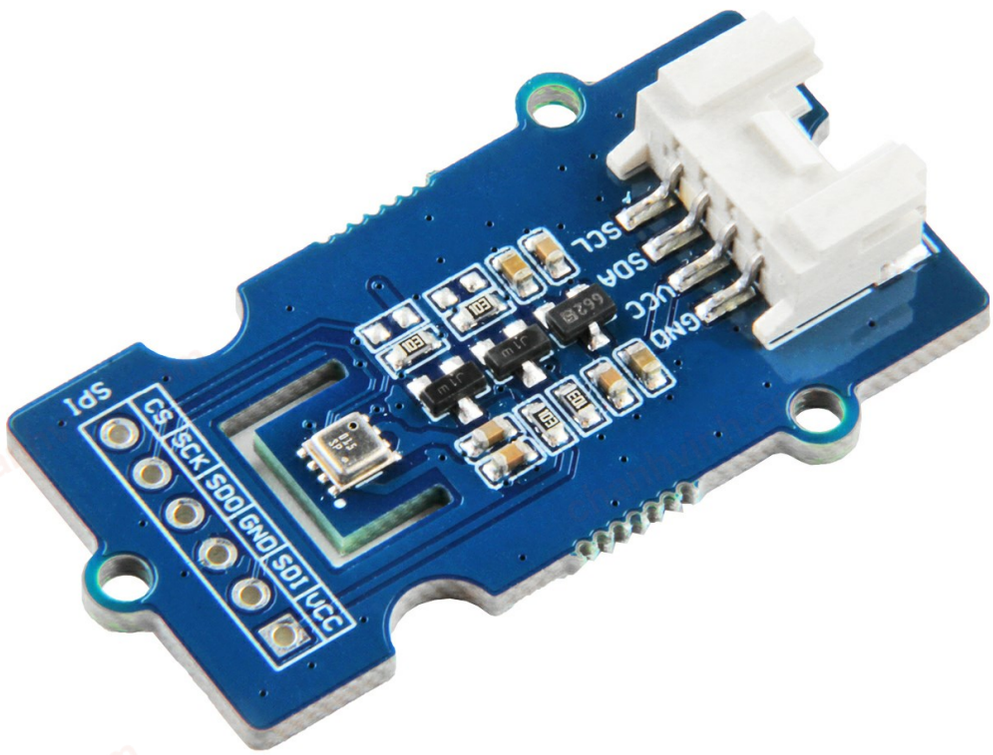




Downloaded from Arrow.com.

chanhvinh.com



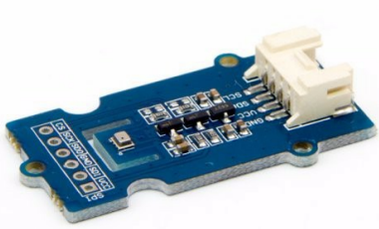


Grove - Temperature, Humidity, Pressure and Gas Sensor (BME680)

SKU 101020513

1 ADD TO CART

Related



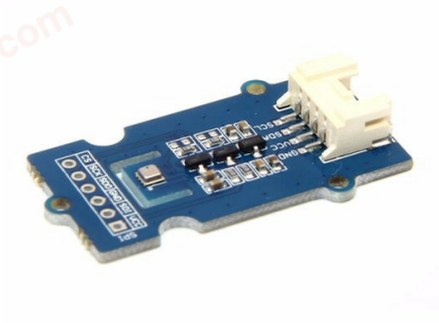
Grove - Barometer Sensor (BMP280)

Downloaded from Arrow.com.

chanhvinh.com

Grove - Barometer Sensor (BMP280)

ADD TO CART



Grove - Temp&Humi&Barometer Sensor (BME280)

Grove - Temp&Humi&Barometer Sensor (BME280)

ADD TO CART



Grove - Temperature&Humidity Sensor (SHT31)

Grove - Temperature&Humidity Sensor (SHT31)

ADD TO CART

Description

The Grove-Temperature&Humidity&Pressure&Gas Sensor(BME680) is a multiple function sensor which can measure temperature, pressure, humidity and gas at the same time. It is based on the BME680 module. The 4-in-1 function is integrated on such a small module, it will be very beneficial to apply on IOT or GPS devices.

Features

- 4-in-1 for multiple measurement
- low consumption
- Wide measurement range
- Optional output:

Individual humidity, pressure and gas sensors can be independently enabled/diabled

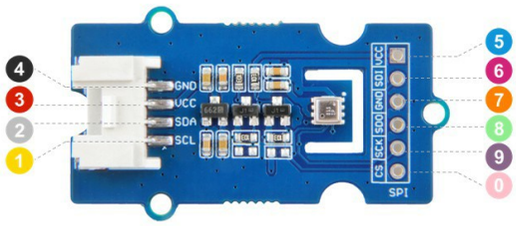
Typical Applications

- Indoor air quality
- Home automation and control
- IOT device
- Weather forecast
- GPS enhancement(e.g. time-to-first-fix improvement, dead reckoning, slope detection)
- Indoor navigation(change of floor detection, elevator detection)
- Vertical velocity indication(risk/sink speed)

Pin Map

Downloaded from Arrow.com.

chanhvinh.com

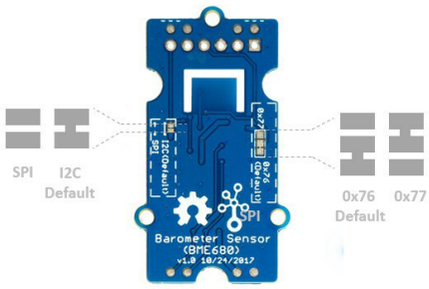


I2C

- 4 GND: connect this module to the system GND
- 3 VCC: you can use 5V or 3.3V for this module
- 2 SDA: serial data
- 1 SCL: serial clock

SPI

- 5 VCC: you can use 5V or 3.3V for this module
- 6 SDI: serial data input; data input/output in 3-wire mode
- 7 GND: connect the system GND with this module
- 8 SDO: serial data output; hi-Z in 3-wire mode
- 9 SCK: serial clock
- 0 CS: chip select, active low



Technical Details

Dimensions	40mm x 20mm x 7mm
Weight	G.W 9.10g
Battery	Exclude
Operating Voltage	3.3V/5V
Operating Range	-40~+85℃; 0-100% r.H.; 300-1100hPa
Humidity Absolute Accuracy	± 3%r.H. (20-80 %r.H.,25℃)
Humidity Resolution	0.008 %r.H.
Pressure Absolute Accuracy	± 0.6 hPa (300-1100 hPa, 0-65℃)
Pressure Resolution	0.18 Pa
Temperature Absolute Accuracy	± 0.5℃（25℃，At,25）: ± 1℃（0-65℃, At,full）
Temperature Resolution	0.01℃
Digital Interface	I2C(up to 3.4MHZ)/ SPI(3 and 4 wire, up to 10MHz)
I2C address	0x76(default)/ 0x77(optional)

Part List

Grove - Temperature, Humidity, Pressure and Gas Sensor (BME680)	1
Grove cable	1

ECCN/HTS

ECCN EAR99
HSCODE9025900090

Certification

CertificationCE

Learn



[Wiki] Grove - Temperature Humidity Pressure Gas Sensor(BME680)

This is the wiki of Grove - Temperature Humidity Pressure Gas Sensor(BME680)

Questions and Answers

Have a question about this? Ask people who



Grove - Temperature, Humidity, Pressure and Gas Sensor (BME680)

SKU 101020513

IN STOCK
3 Available

1

ADD TO CART

Related
Description
Technical Details
Learn
Questions and Answers

Downloaded from Arrow.com.

chanhvinh.com

Downloaded from Arrow.com.

chanhvinh.com

Notify me when it's back in stock

Please enter a valid email a

SUBMIT

POPULAR SEARCHES

PCB Manufacturing | PCB Assembly | PCB Layout | 3D Printing | PCB Stencil | Lora | ReSpeaker | Grove | Lidar | GPS | Can-Bus | Arduino | Arduino Shield | Beaglebone | Raspberry Pi | FPGA | LinkIt ONE | Crazyflie 2.0 | Raspberry Pi 3 Model B | RF Explorer | DSO Nano v3 | HiKey | rplidar | raspberry pi relay | RPLIDAR A2

Company
About Seeed
Distributors
Careers
Contacts

Help Center
How to Get Help
FAQ
Technical Support
Shipping & Order
Warranty & Returns
Payment Information

Community
Project Hub
Forum
Blog
Wiki

Stay Tuned
Subscribe to our newsletter.
email address

© 2008-2018 Seeed Technology Co.,Ltd. All rights reserved. Site Map Privacy Policy

Select Language

Select Language

Contact Support

Downloaded from Arrow.com.