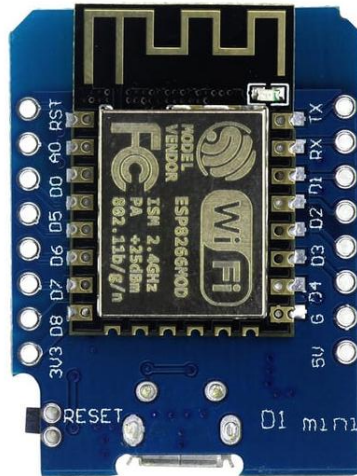


Hardware Components

- Wemos D1 Mini



<https://robu.in/product/d1-mini-v2-nodemcu-4m-bytes-lua-wifi-internet-of-things-development-board-based-esp8266/>

<https://zbotic.in/product/d1-mini-v2-nodemcu-4m-bytes-lua-wifi-internet-of-things-development-board-based-esp8266/>

https://robocraze.com/products/esp-12-d1-mini-v2-board?_pos=1&_psq=d1+mini&_ss=e&_v=1.0

- DHT11



<https://robu.in/product/dht11-temperature-and-humidity-sensor-module-with-led/>

<https://zbotic.in/product/dht11-temperature-and-humidity-sensor-module-with-led/>

https://robocraze.com/products/dht11-humidity-temperature-sensor-module?_pos=1&_sid=783ad7e7f&_ss=r

- BME280

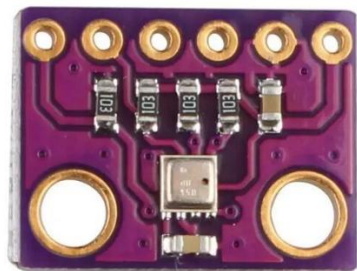


<https://robu.in/product/gy-bme280-3-3-precision-altimeter-atmospheric-pressure-sensor-module/>

<https://zbotic.in/product/gy-bme280-3-3-precision-altimeter-atmospheric-pressure-sensor-module/>

https://robocraze.com/products/bmp280-sensor-module?_pos=3&_sid=91a69a5bc&_ss=r

- BMP280



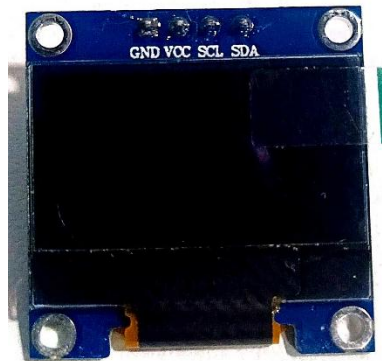
<https://robu.in/product/bmp280-barometric-pressure-and-altitude-sensor-i2c-spi-module/>

<https://zbotic.in/product/gy-bmp280-3-3-precision-altimeter-atmospheric-pressure-bmp280-sensor-module/>

https://robocraze.com/products/bmp280-sensor-module?_pos=1&_sid=6a99db491&_ss=r

- Micro usb cable
- female to female jumpers

- OLED 0.96" (I²C)



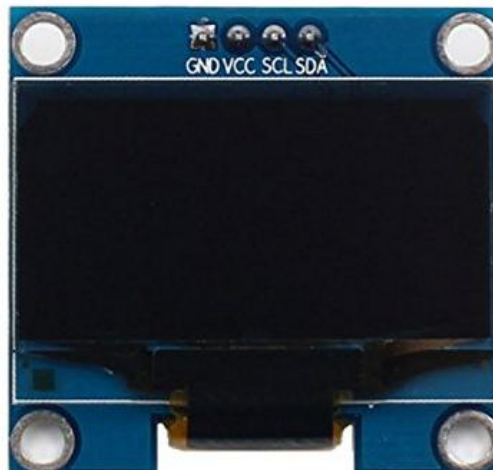
<https://robu.in/product/0-96-inch-yellow-yellow-blue-oled-lcd-led-display-module/>

<https://robu.in/product/4pin-oled-display-module-blue-color/>

<https://zbotic.in/product/0-96-inch-i2c-iic-4pin-oled-display-module-blue/>

https://robocraze.com/products/0-96in-oled-display-module-4pin?_pos=1&_sid=53e538b33&_ss=r

- OLED 1.3" (I²C)



<https://robu.in/product/1-3-inch-i2c-oled-display-module-4-pin-white/>

<https://robu.in/product/1-3-inch-i2c-iic-4-pin-oled-display-module-with-vcc-gnd-blue/>

<https://robu.in/product/oled-display-module-4/>

<https://robu.in/product/oled-display-module-2/>

<https://zbotic.in/product/1-3-inch-i2c-iic-4-pin-oled-display-module-with-vcc-gnd-blue/>

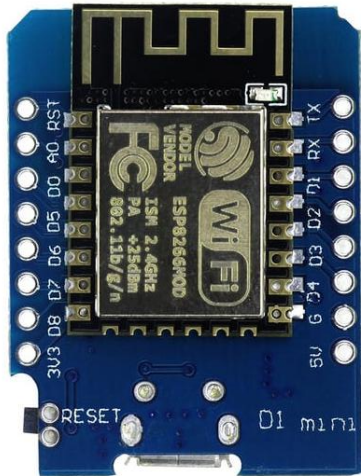
<https://zbotic.in/product/1-3-inch-i2c-iic-oled-lcd-module-4pin-with-gnd-vcc-blue-sh1106-chip/>

<https://zbotic.in/product/1-3-inch-i2c-iic-128-x-64-white-oled-display-module-4pin-black-pcb-unsoldered/>

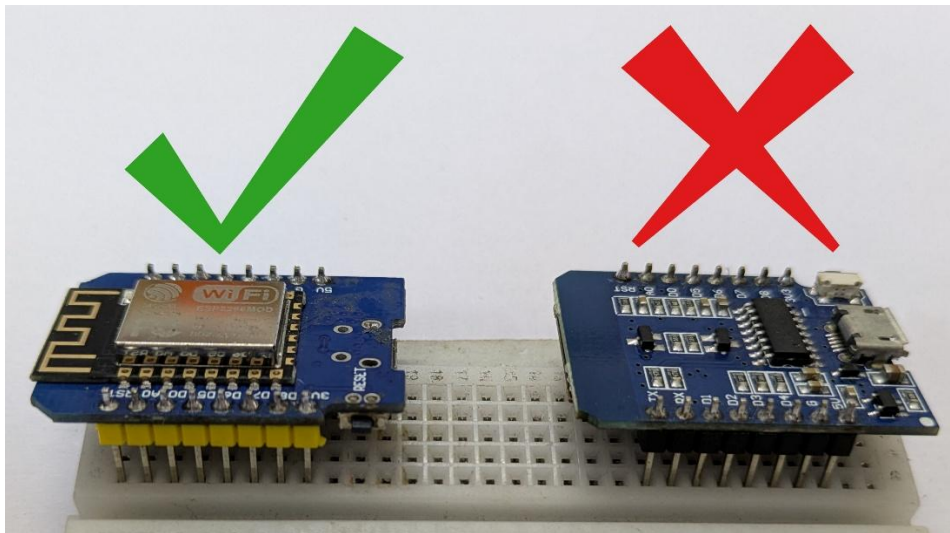
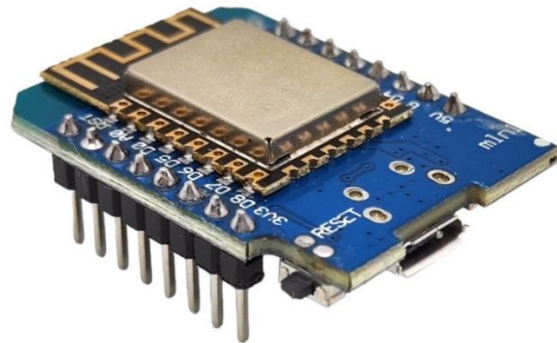
<https://zbotic.in/product/1-3-inch-i2c-iic-white-oled-display-module-4pin/>

https://robocraze.com/products/1-3in-oled-display?_pos=8&_sid=56d60f8c3&_ss=

Device Wiring



Solder male headers



Note: Wemos Mini orientation

- Disconnect device from USB before wiring the sensors.

Firmware: 3.1.0 - Only DHT

Wemos	DHT11
3v3	VCC
D6	DATA
G	GND

Firmware: 3.1.3 - DHT with 1.3" OLED display

Wemos	DHT11
3v3	VCC
D6	DATA
G	GND

Wemos	OLED
3v3	VCC
G	GND
D1	SCL
D2	SDA

Firmware: 3.1.4 - DHT with 0.96" OLED display

Wemos	DHT11
3v3	VCC
D6	DATA
G	GND

Wemos	OLED
3v3	VCC
G	GND
D1	SCL
D2	SDA

Firmware: 3.5.0 - Only BME280

Wemos	BME280
3v3	Vin
G	GND
D1	SCL
D2	SDA

Firmware: 3.5.1 - BME280 with 1.3" OLED display

Wemos	BME280	OLED
3v3	Vin	VCC
G	GND	GND
D1	SCL	SCL
D2	SDA	SDA

Firmware: 3.5.2 - BME280 with 0.96" OLED display

Wemos	BME280	OLED
3v3	Vin	VCC
G	GND	GND
D1	SCL	SCL
D2	SDA	SDA

- Connect device to USB.
- Blue LED starts blinking slowly indicating data is getting transmitted.
- Open <https://aprs.fi> to locate your station.