

Waveshare Environment Sensors Module for Raspberry Pi Pico, I2C Bus User Manual

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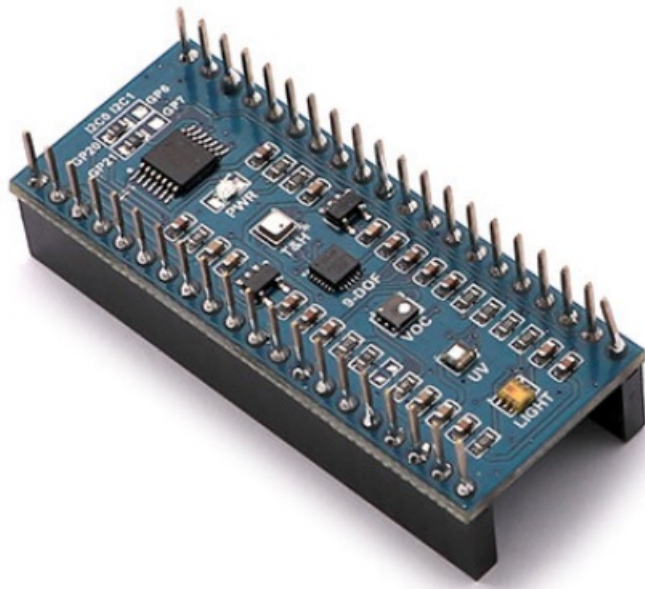


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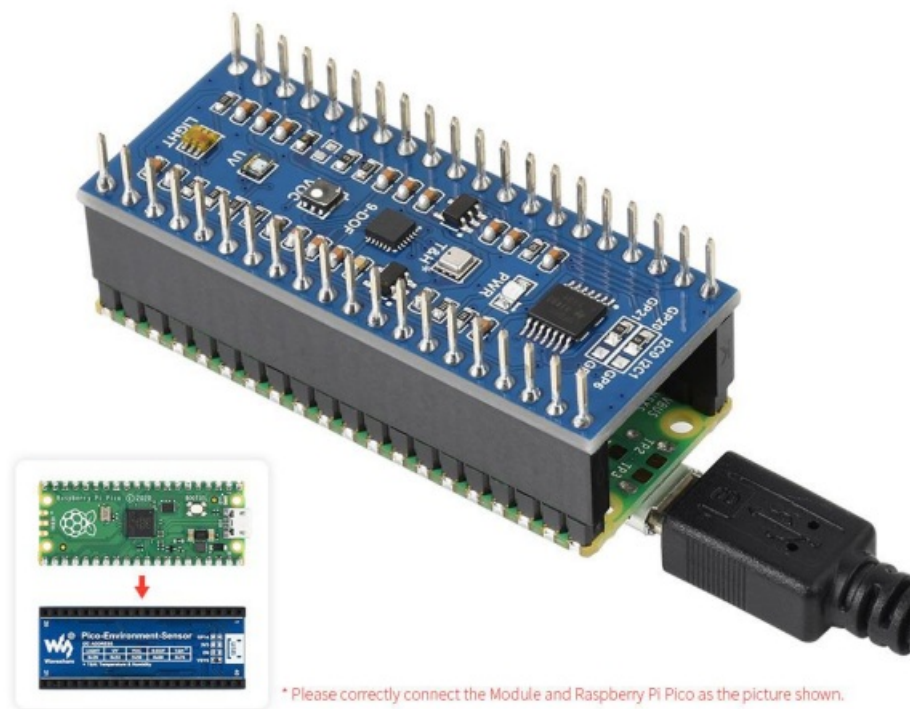
WAVESHARE

Waveshare Environment Sensors Module for Raspberry Pi Pico, I2C Bus



Raspberry Pi Pico Header Compatibility

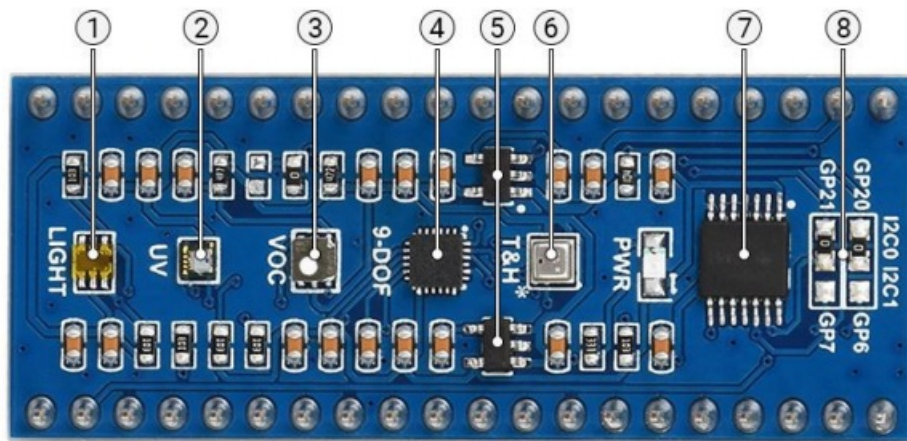
Onboard Female Pin Header for Direct Attaching to Raspberry Pi Pico



* Please correctly connect the Module and Raspberry Pi Pico as the picture shown.

- Raspberry Pi Pico is NOT included.

What's on Board



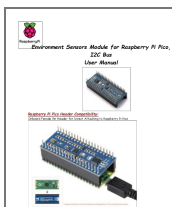
1. **TSL25911FN**: digital ambient light sensor, for measuring IR and visible light
2. **LTR390-UV-1**: UV sensor
3. **SGP40**: VOC sensor
4. **ICM20948**: 3-axis accelerometer, 3-axis gyroscope, 3-axis magnetometer
5. **Voltage level translator**: 5V to 3.3V/1.8V
6. **BME280**: temperature, humidity, and air pressure sensor
7. **Logic level conversion**: 3.3V-1.8V
8. I2C selection

Pinout Definition

GP0	1	40	VBUS
GP1	2	39	VSYS
GND	3	38	GND
GP2	4	37	3V3_EN
GP3	5	36	3V3(OUT)
GP4	6	35	ADC_VREF
GP5	7	34	GP28
GND	8	33	GND
GP6	9	32	GP27
GP7	10	31	GP26
GP8	11	30	RUN
GP9	12	29	GP22
GND	13	28	GND
GP10	14	27	GP21
GP11	15	26	GP20
GP12	16	25	GP19
GP13	17	24	GP18
GND	18	23	GND
GP14	19	22	GP17
GP15	20	21	GP16

VSYS	5V power supply
GND	Ground
GP20	SDA I2C SDA pin
GP21	SCL I2C SCL pin

Documents / Resources



[Waveshare Environment Sensors Module for Raspberry Pi Pico, I2C Bus](#) [pdf] User Manual
 | Environment Sensors Module for Raspberry Pi Pico, I2C Bus

References

-  [Raspberry Pi Pico, A Low-Cost, High-Performance Microcontroller Board With Flexible Digital Interfaces](#)