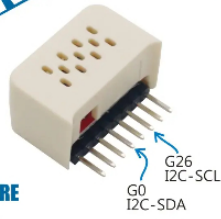


ENV HAT SKU:U053



T&H
DHT12
PRESSURE
BMP280
GEOMAGNETIC SENSOR
BMM150



Description

Hat ENV It is able to detect the temperature, humidity, air pressure and magnetic field. This product relates via I2C protocol which allows you to obtain 4 types of environment data thru just 2pins, together with the tiny body, makes it a powerful application for environment data collecting.

Product Feature

temperature:

Range: -20 ~ 60 °C

Humidity:

Range: 20 ~ 95 %RH

Air pressure:

Range: 300 ~ 1100hPa

Typical Magnetic Field:

±1300μT (x, y-axis) , ±2500μT (z-axis)
magnetic field resolution: 0.3μT

Include

1x ENV Hat

Applications

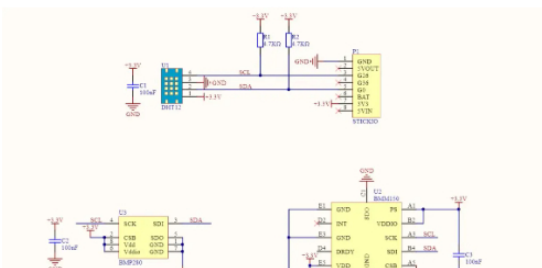
Weather Station
Compass

Specification

Resources	Parameter
net weight	4g
Gross weight	8g
Product Size	24*20*14mm
Package Size	36*38*18mm

Schematic

Schematic



Related Link

- [BMP280 library](#)
- [BMP280 Datasheet](#)
- [DHT12 Datasheet](#)
- [BMM150 Datasheet](#)

Pin Map

M5StickC	GPIO0	GPIO26	3.3V	GND
HAT ENV	SDA	SCL	3.3V	GND

EasyLoader

EasyLoader is a concise and fast program writer, which has a built-in case program related to the product. It can be burned to the main control by simple steps to perform a series of function verification. Please install the corresponding driver according to the device type. M5Core host [Please click here to view the CP210X driver installation tutorial](#), M5StickC/V/T/ATOM series can be used without driver)

Example

1. Arduino

Please click [here](#) to get complete code

2. UIFlow

Open <http://flow.m5stack.com> and Load Demo

The screenshot shows the UIFlow V1.4.3 interface. At the top, there's a 'Project' field and a 'Blockly' / 'Python' toggle. Below that is a grid of 'Examples' with icons for: PIR Hat, ENV Hat, SPK Hat, NCIR Hat, DAC Hat, ADC Hat, BeeticC, Finger, PuppyC, Servo, and YUN. The 'ENV Hat' example is selected, and its details are shown below the grid. The details include the title 'ENV Hat', a description 'Display temperature, humidity, air barometric pressure as digital numbers and bar graph.', and two event triggers: 'LED event is the alarm of temperature lower than 20C' and 'Text blink is the alarm of humidity higher than 60%'. A 'Load' button is visible at the bottom left of the example details.