



# M5StickC Development Kit with Hat

SKU: K016-F



**NOTE: ENV HAT has been upgraded to ENV Hat II.**

## Description

M5StickC is a mini M5Stack, powered by ESP32, which is a single 2.4 GHz Wi-Fi and Bluetooth combo chip and integrates a 4-MB SPI flash. It is a portable, easy-to-use, open source, IoT development board. What it can do? This tiny block is able to realize your idea, enlighten your creativity, and help with your IoT prototyping in a very short time. It will take away a lot of pains from the development process. M5stickC is one of the core devices in M5Stack product series.

ENV II is an environment sensor which can sense temperature, humidity and atmospheric pressure. It is built with SHT30, BMP280 and BMM150 sensors, it is programmed over I2C. SHT30 is a digital temperature and humidity sensor with high precision and low power consumption. BMP280 is an absolute barometric pressure sensor which is especially designed for mobile applications. BMM150 is a magnetometer, which can be used to monitor the change of magnetic field and the direction of magnetic field. It offers the highest flexibility to optimize the device regarding power consumption, resolution and filter performance.

SPK HAT is an M5StickC compatible speaker, integrated PAM8303 amplifier (3w single channel type D power amplifier), High PSRR and differential inputs eliminate noise and rf interference, thus it has the characteristics of simple functions and high audio reproduction.

It is built in a continually growing hardware and software ecosystem. It has a lot of compatible modules and units, as well as the open source code & engineering communities that will help you maximize your benefits in every step of the developing process.

## Product Features

ESP32-based

Built-in 6-Axis IMU

Red LED

IR transmitter

Microphone

Buttons, LCD(0.96 inch)

Built-in Lipo Battery

Extendable Socket

Wearable & Wall mounted

Development Platform UIFlow, MicroPython, Arduino



## ENV HAT II

Measurement of temperature, humidity, air pressure and magnetic field

High-precision

Support IIC

GROVE interface, support UIFlow and Arduino

Two Lego installation holes

## SPK HAT

Ultra-low EMI interference, 20dB better than FCC class B standard at 300MHz

Voltage 5 v power supply, with 4  $\Omega$  load power output 3 w, 10% of the total harmonic distortion

Ultra-low noise without input

Power range: 2.8V~5.5V

Shortcut protection

## Include

- 1x M5StickC
- 1x 20cm USB Type-C cable
- 1x ENV Hat II
- 1x SPK Hat
- 1x WALL/1515
- 1x Brick
- 1x Watch Belt

## Applications

- IoT terminal controller
- Wearable devices
- STEM education product
- DIY creation
- Weather Station
- Compass
- MP4/MP3

**HAT-ENV**



**HAT-SPK**



**T&H**  
DHT12  
**PRESSURE**  
BMP280  
**GEOMAGNETIC**  
**SENSOR**  
BMM150

**D CLASS**  
PAM8303

