

M5StickC PLUS ESP32-PICO Mini IoT Development Kit



Description

M5StickC PLUS is powered by ESP32-PICO-D4 with Bluetooth 4.0 and WiFi and is an upgrade of the original M5StickC with a bigger screen .It is a portable, easy-to-use, open source, IoT development board. This tiny device will enable you to realize your ideas, enrich your creativity, and speed up your IoT prototyping. Developing with M5StickC PLUS takes away a lot of the pains from the development process. M5StickC Plus is one of the core devices in M5Stacks product series. The compact body is integrated with rich hardware resources, such as infrared, RTC, Microphone, LED, IMU, Buttons, PMU,etc. Improvements from the regular StickC are a buzzer, bigger

screen (1.14-inch, 135 * 240 resolution LCD Screen) and more stable hardware design. This revision increases the display area by 18.7%, and the battery capacity from 95mAh to 120mAh. It also supports the HAT and Unit family of products.

Power switch operation :

- Power on : Press power button for 2 seconds
- Power off : Press power button for 6 seconds

Notice:

- Baud rate supported by M5StickC Plus: 1200 ~115200, 250K, 500K, 750K, 1500K
- G36/G25 share the same port, when one of the pins is used, the other pin should be set as a floating input
- For example, to use the G36 pin as the ADC input, Configuration the G25 pin as FLOATING

```
setup()
{
  M5.begin();
  pinMode(36, INPUT);
  gpio_pulldown_dis(GPIO_NUM_25);
  gpio_pullup_dis(GPIO_NUM_25);
}
```

Product Features

- ESP32-based support BLE 4.2 and WiFi
- Built-in 6-Axis IMU
- Red LED
- IR transmitter
- Microphone
- RTC
- Buttons, LCD(1.14 inch)
- Built-in Lipo Battery
- Extendable Socket
- Built-in Passive Buzzer
- Wearable & Wall mounted
- Development Platform UIFlow, MicroPython, Arduino

Include

1x M5StickC Plus

Applications

- Internet of things terminal controller
- Wearable devices
- Stem education product
- DIY creation

Specification

Resources	Parameter
ESP32	240MHz dual core, 600 DMIPS, 520KB SRAM, Wi-Fi, dual mode Bluetooth
Flash Memory	4MB
Power Input	5V @ 500mA
Port	TypeC x 1, GROVE(I2C+I/O+UART) x 1
LCD screen	1.14 inch, 135*240 Colorful TFT LCD, ST7789v2
Button	Custom button x 2
LED	RED LED
MEMS	MPU6886
IR	Infrared transmission
MIC	SPM1423
RTC	BM8563
PMU	AXP192
Battery	120 mAh @ 3.7V
Antenna	2.4G 3D Antenna
PIN port	G0, G25/G36, G26, G32, G33
Operating Temperature	32°F to 104°F (0°C to 40°C)
net weight	15g
Gross weight	21g
Product Size	48.2*25.5*13.7mm
Package Size	65*25*15mm
Case Material	Plastic (PC)

