

M5StickC ESP32-PICO Mini IoT Development Kit



Description:

M5Stick-C is a mini M5Stack, powered by ESP32. 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 the pain from the development process.

M5stickC is one of the core devices in M5Stack product series which is built in a continuous growing hardware & software ecosystem. It has a lot of compatible modules & units, as well as the open source code & engineering community that will help you maximize your benefit in every step of the developing process.

Product Features:

- 5V DC power supply
- USB Type-C
- ESP32-based
- 4 MByte Flash + 520K RAM
- 6-Axis IMU MPU6886
- Red LED
- IR transmitter
- Microphone
- 2 Buttons, LCD(0.96 inch), 1 Reset
- 2.4G Antenna: Proant 440
- 80 mAh Lipo Battery
- Extendable Socket
- Grove Port
- Wearable & Wall mounted
- Development Platform UIFlow, MicroPython, Arduino

ESP32 Features:

- 240 MHz dual core Tensilica LX6 microcontroller with 600 DMIPS
- Integrated 520 KB SRAM
- Integrated 802.11b/g/n HT40 Wi-Fi transceiver, baseband, stack and LWIP
- Integrated dual mode Bluetooth (classic and BLE)
- Hall sensor
- 10x capacitive touch interface
- 32 kHz crystal oscillator
- PWM/timer input/output available on every GPIO pin
- SDIO master/slave 50MHz
- SD-card interface support

Hardware Description:



Pin Map:



RED LED & IR Transmitter & BUTTON A & BUTTON B

ESP32	GPIO10	GPIO9	GPIO37	GPIO39
Red LED	LED Pin			
IR Transmitter		Transmitter Pin		
Button A			Button Pin	
Button B				Button Pin

TFT LCD

Driver IC: ST7735S

Resolution: 80*160

ESP32	GPIO15	GPIO13	GPIO23	GPIO18	GPIO5
TFT LCD	TFT_MOSI	TFT_CLK	TFT_DC	TDT_RST	TFT_CS

GROVE PORT

ESP32	GPIO33	GPIO32	5V	GND
GROVE port	SCL	SDA	5V	GND

MIC (SPM1423)

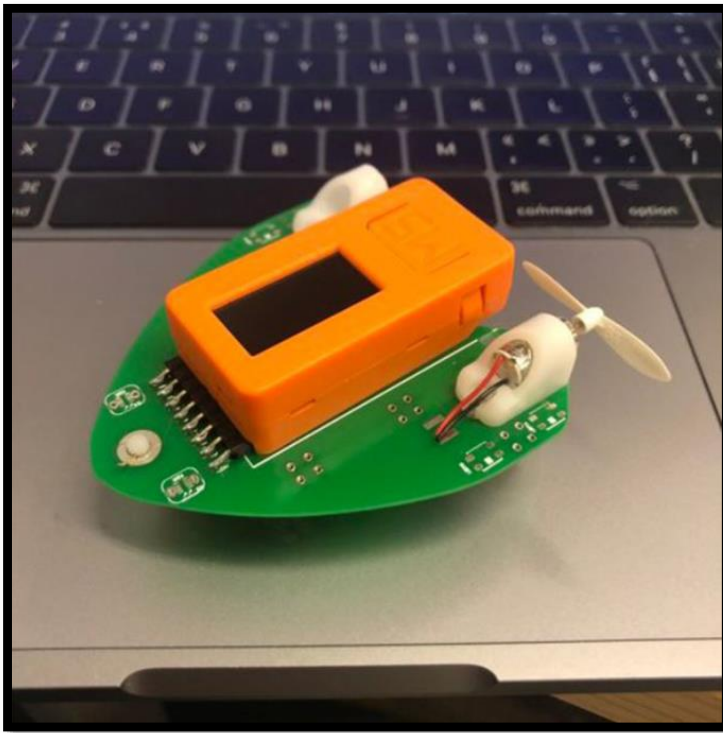
ESP32	GPIO0	GPIO34
MICPHONE	SCL	SDA

6-Axis posture sensor (SH200Q) & power management IC (AXP192)

ESP32	GPIO22	GPIO22
6-Axis posture sensor	SCL	SDA
Power management IC	SCL	SDA

Application Photos:





Made in China