Specification

Resources	Parameter
ESP32-D0WDQ6-V3	240MHz dual core, 600 DMIPS, 520KB SRAM, Wi-Fi
Flash	16MB
PSRAM	8MB
Input Voltage	5V @ 500mA
Interface	TypeC x 1, GROVE(I2C+I/0+UART) x 1
IPS LCD Screen	2.0"@320*240 ILI9342C
Touch Screen	FT6336U
Speaker amplifier	NS4168
LED	Green power indicator light
Button	Power button, RST button, Virtual screen button*3
Vibration reminder	Vibration motor
MIC	SPM1423
I2S Power Amplifier	NS4168
6-axis IMU	MPU6886
RTC	BM8563
PMU	AXP192
USB Chip	CP2104/CH9102F (two chip versions, there is no difference in function and use)
DC-DC Boost	SY7088
TF card slot	16G Max
Lithium Battery	390mAh @ 3.7V
Antenna	2.4G 3D antenna
Operating temperature	0°C to 60°C
Base screw specifications	Hexagon socket countersunk head M3
Internal PCB board reserved interface	Battery interface (specification: 1.25mm-2P) USB line interface (specification: 1.25mm-4P)
Net Weight	52g
Gross Weight	70g
Product Size	54 x 54 x 16mm
Package Size	75 x 60 x 20mm
Case Material	Plastic (PC)

LEARN AND DOCUMENTS



UIFlow

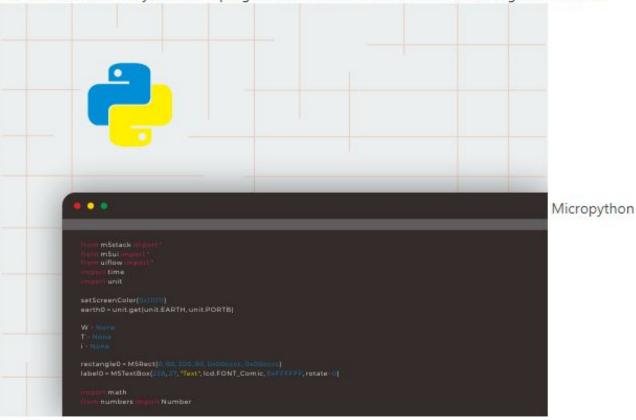
This tutorial will show you how to control M5Core2 devices through the UIFlow graphical programming platform



```
1 #include <M5Stack.h>
2
3 // the setup routine runs once when M5Stack starts up
4 void setup() (
5
6 // Initialize the M5Stack object
7 M5.begin();
```

Arduino IDE

This tutorial will show you how to program and control M5Core2 devices through Arduino IDE



Micropython

This tutorial will show you how to control M5Core2 devices through Micropython programming





Health monitor - Waylay IO

Health monitor - Waylay IO

Health monitoring using the M5Stack Mini Heart Rate Unit and Non-Contact Infrared Thermometer Unit and the Waylay IO IoT platform.



One-Wheel Balancing Robot Using Reaction Wheels

One-Wheel Balancing Robot Using Reaction Wheels

I made one-wheel balancing robot. This robot can be operated remotely from a smartphone using Blynk.





M5Stack Christmas Snow Globe

M5Stack Christmas Snow Globe

Modern times make modern solutions possible. Therefore, the step to a digital snow globe is not that far.



Simple remote for home automisation with Core 2 (wip)

Simple remote for home automisation with Core 2 (wip)

Developing a simple remote for my openhab, I have got the app but do not want to unlock my phone, open the app to do stuff