

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/O+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)

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UIFlow

UIFlow

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



Arduino IDE

```
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();
8
```

Arduino IDE

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



```
from m5stack import *
from m5ui import *
from uiflow import *
import time
import unit

setScreenColor(0x0000)
earth0 = unit.get(unit.EARTH, unit.PORTB)

W = None
T = None
I = None

rectangle0 = M5Rect(0, 80, 200, 80, 0x000000, 0x000000)
label0 = M5TextBox(220, 27, "Text", lcd.FONT_Comic, 0xFFFFFF, rotate=0)

import math
from numbers import Number
```

Micropython

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 automation with Core 2 (wip)

Simple remote for home automation 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