

Base M5GO Bottom2

SKU:A014-C



Description

Base M5GO Bottom2 is an expansion base designed specifically for the M5Core2. The base integrates an MPU6886 six-axis motion sensor, a digital microphone (SPM1423), and a 500 mAh lithium battery. Two HY2.0-4P expansion interfaces bring out commonly used ADC/DAC/UART pins, allowing for the connection of various types of sensors. On both sides of the base, there are 10 programmable RGB LEDs (SK6812), which, combined with a frosted light-transmitting material, provide a soft and comfortable lighting effect. The bottom features a pogo pin magnetic charging interface. When attached to the charging base, current flows safely into the internal battery through the built-in TP4057 charging chip. In addition to the charging function, the pogo pin interface also brings out the main control I2C bus, allowing for external expansion via magnetic attachment. The built-in magnets and LEGO-compatible hole design on the back enable seamless integration with other LEGO structures.

Features

- Compatible with M5Core2
- Digital microphone

- Programmable LED light strip
- 500mAh lithium battery
- HY2.0-4P expansion interface
- LEGO-compatible structure
- Compatible with magnetic charging base

Includes

- 1 x Base M5GO Bottom2
- 2 x M3*16 screws
- 2 x M3*18 screws

Applications

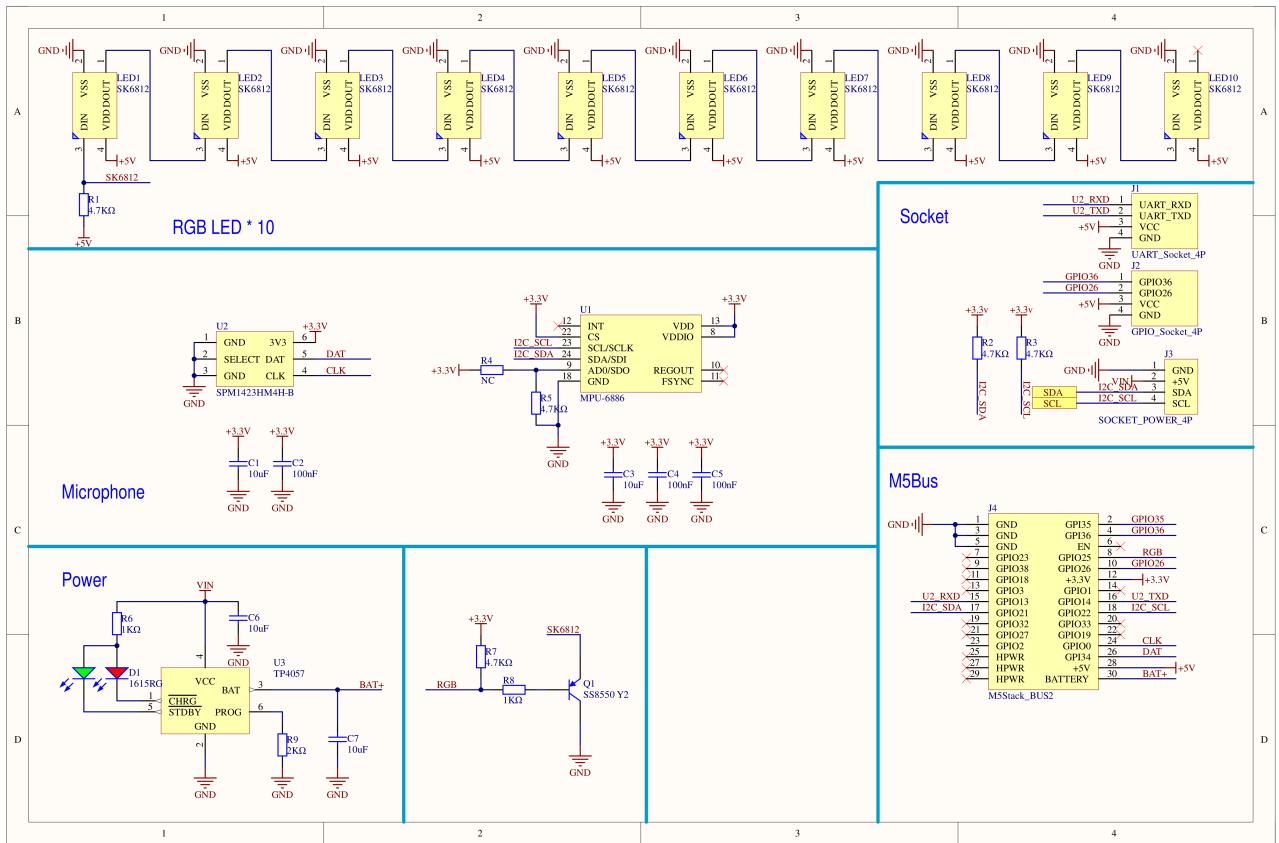
- CORE2 expansion

Specifications

Specification	Parameter
Microphone	SPM1423
LED	SK6812 x 10
IMU	MPU6886
Product Size	54.0 x 54.0 x 15.0mm
Product Weight	30.0g
Package Size	132.0 x 95.0 x 16.0 mm
Gross Weight	47.4g

Schematics

[Base M5GO Bottom2 Schematics PDF](#)



PinMap

SK6812-LED Bar

ESP32 Chip	G25
SK6812	DATA

SPM1423-Microphone

ESP32 Chip	G34	G0
SPM1423	DAT	CLK

MPU6886 & Pogo Pin

ESP32 Chip	G21	G22
MPU6886	SDA	SCL
Pogo Pin	SDA	SCL

HY2.0-4P

ESP32 Chip	G26	G36
PortB	G26(DAC)	G36(ADC)

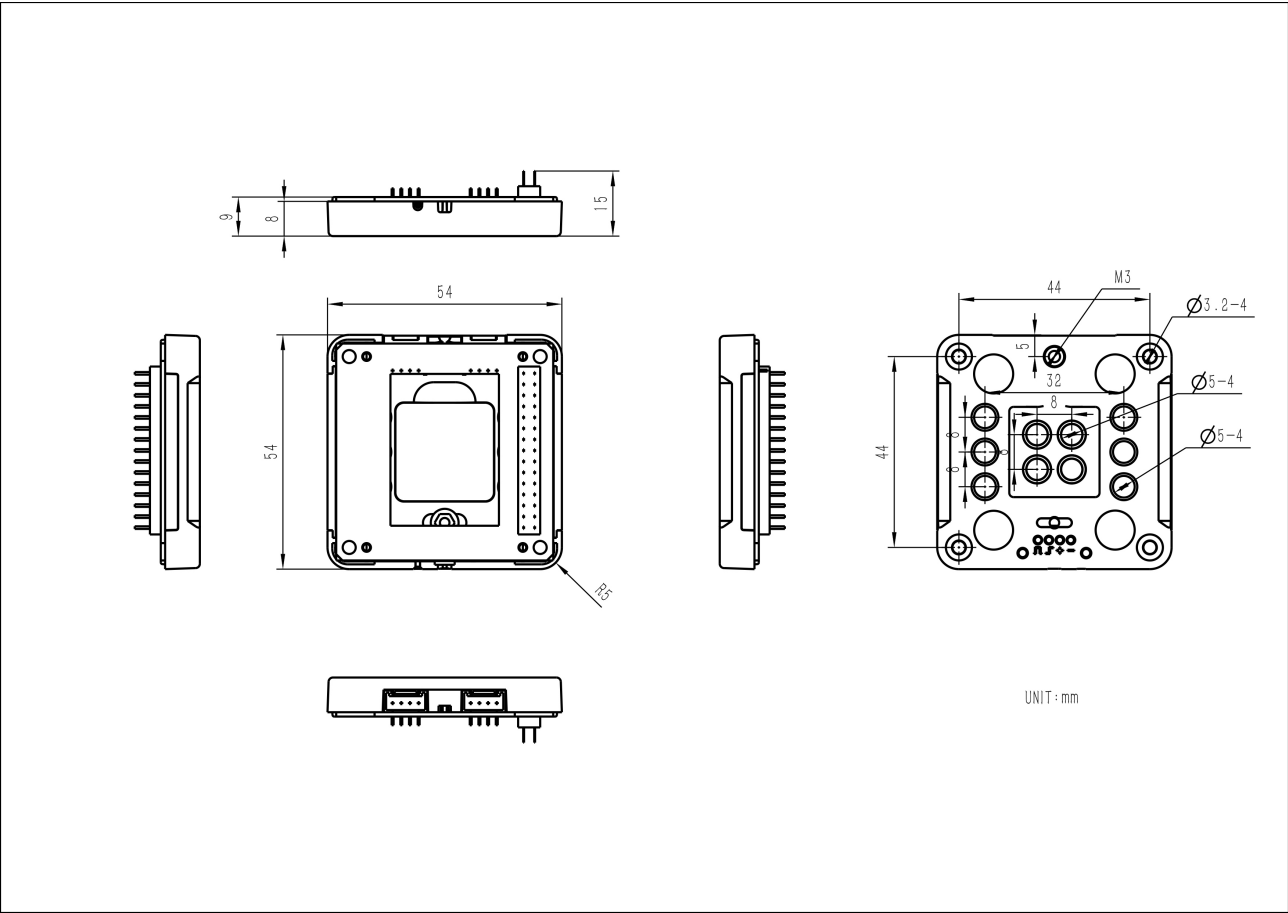
ESP32 Chip	G13	G14
PortC	G13(RXD2)	G14(TXD2)

Base M5GO Bottom2 Bus



G35	ADC	GND
G36	ADC	GND
EN	RST	GND
G25	DAC	MOSI G23
G26	DAC	MISO G38
	3.3V	SCK G18
G1	TXD0	RXD0 G3
G14	TXD2	RXD2 G13
G22	IntSCL	IntSDA G21
G33	PA_SCL	PA_SDA G32
G19	GPIO	GPIO G27
G0	I2S_LCK	I2S_DOUT G2
G34	PDM_DAT	NC
	5V	NC
	BAT	NC

Model Size



Datasheets

- [SPM1423](#)
- [MPU6886](#)

Softwares

Arduino

- [Base M5GO Bottom2 Test Example](#)

EasyLoader

Easyloader	Download	Note
Base M5GO Bottom2 Test Easyloader	download	/

Video

- IMU data acquisition, microphone data acquisition and spectrum display, LED blinking control.

[M5GO_BOTTOM2_video.mp4](#)

Product Comparison

Product Comparison Table   			
	Base M5GO Bottom	Base M5GO Bottom2	Base M5GO Bottom3
Core	Basic (Core)	Core2	CoreS3
RGB	10*SK6812	10*SK6812	10*WS2812
IMU	/	MPU6886	/
IR	IR	/	IR
BATTERY	500mAh	500mAh	500mAh
MIC	SPQ2410	SPM1423	/

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[M5Stack:](#)

[A014-C](#)