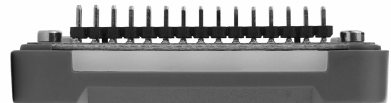
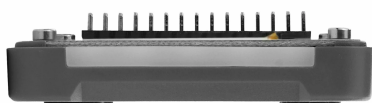
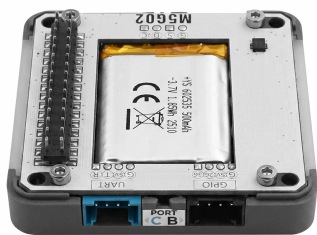


Base M5GO Bottom2 v1.3

SKU:A014-C-V13





Description

Base M5GO Bottom2 v1.3 is an expansion base designed specifically for the M5Stack Core2 series. It features an onboard **BMI270 6-axis IMU**, **LMD4020 digital microphone**, and **500 mAh built-in lithium battery**. Two HY2.0-4P expansion ports expose commonly used ADC, DAC, and UART peripheral pins for convenient connection to various sensor modules.

The base integrates 10 programmable SK6812 RGB LEDs on both sides. Combined with frosted light guides, they provide soft and even illumination. The bottom uses a Pogo Pin magnetic charging interface. When connected to a magnetic charging base, the onboard **TP4057 charging management IC** safely and steadily charges the built-in battery. The Pogo Pin interface also exposes the host controller's **I2C bus**, supporting magnetic external expansion. Built-in magnets and LEGO-compatible mounting holes on the back allow seamless integration with LEGO structures. **It is suitable for IoT development, motion-sensing interaction, and creative audio-visual projects.**

Features

- Compatible with the Core2 series
- Digital microphone
- Programmable LED light bar
- 500mAh lithium battery
- HY2.0-4P expansion ports
- Compatible with LEGO brick structures
- Magnetic attachment design on the back

Includes

- 1 x Base M5GO Bottom2 v1.3
- 2 x M3 * 16mm socket-head machine screws
- 2 x M3 * 18mm socket-head machine screws
- 1 x 2.5mm L-shaped hex key (for M3 screws)

Applications

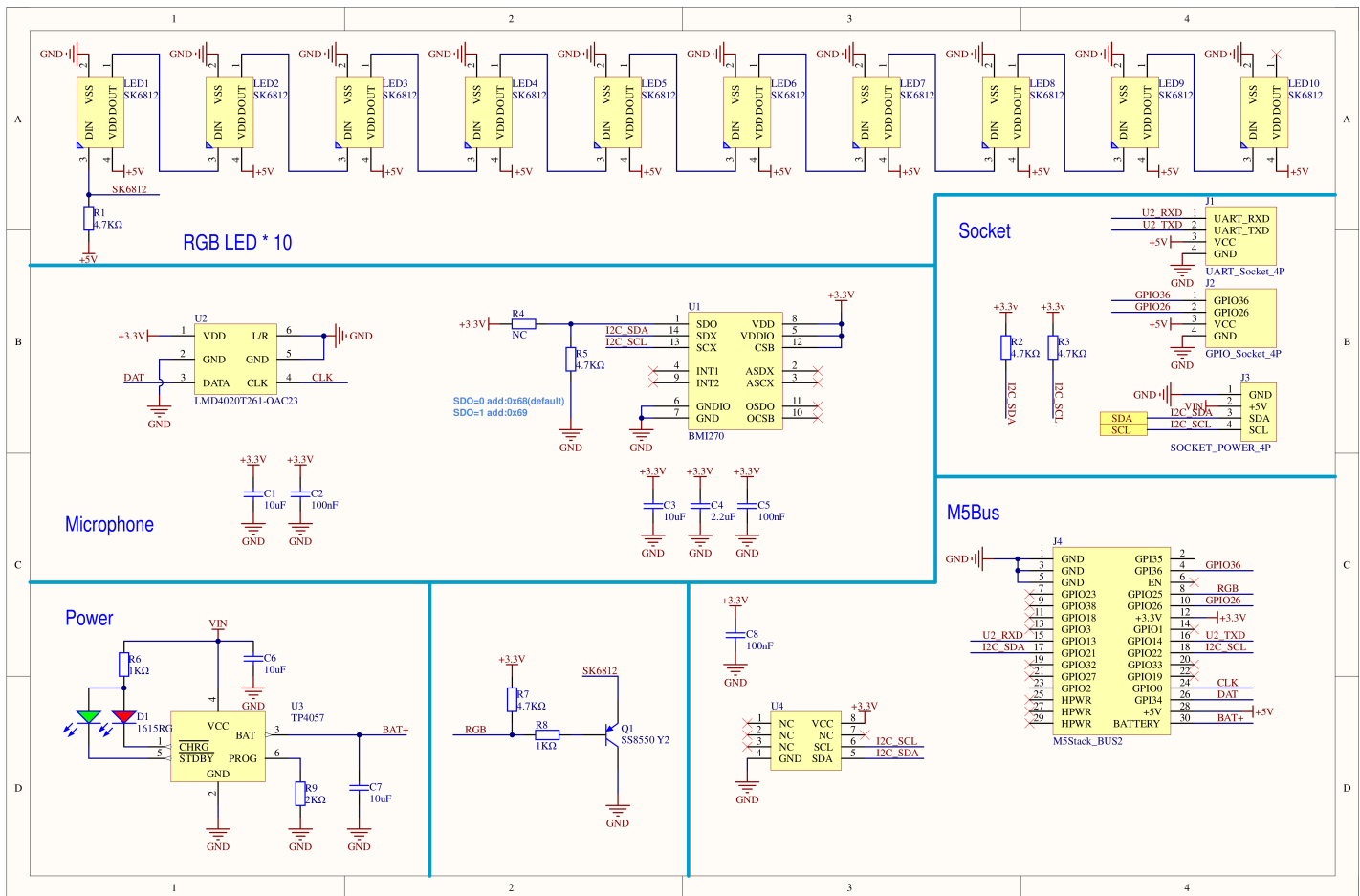
- Core2 series expansion
- IoT development
- Motion-sensing interaction
- Creative audio-visual projects

Specifications

Specification	Parameter
Microphone	PDM microphone (LMD4020T261-OAC23)
LEDs	10 x SK6812 programmable RGB LEDs
Lithium battery	500mAh @ 3.7V
Lithium battery charging IC	TP4057
IMU	BMI270
Product size	54.0 x 54.0 x 15.0mm
Product weight	30.9g
Package size	132.0 x 95.0 x 16.0mm
Gross Weight	53.2g

Schematics

o [Base M5GO Bottom2 v1.3 Schematics PDF](#)



PinMap

SK6812-LED Bar

Core2	G25
SK6812	DATA

LMD4020 - Microphone

Core2	G34	G0
LMD4020	DAT	CLK

BMI270 & Pogo Pin

Core2	G21	G22
BMI270	SDA	SCL
Pogo Pin	SDA	SCL

HY2.0-4P

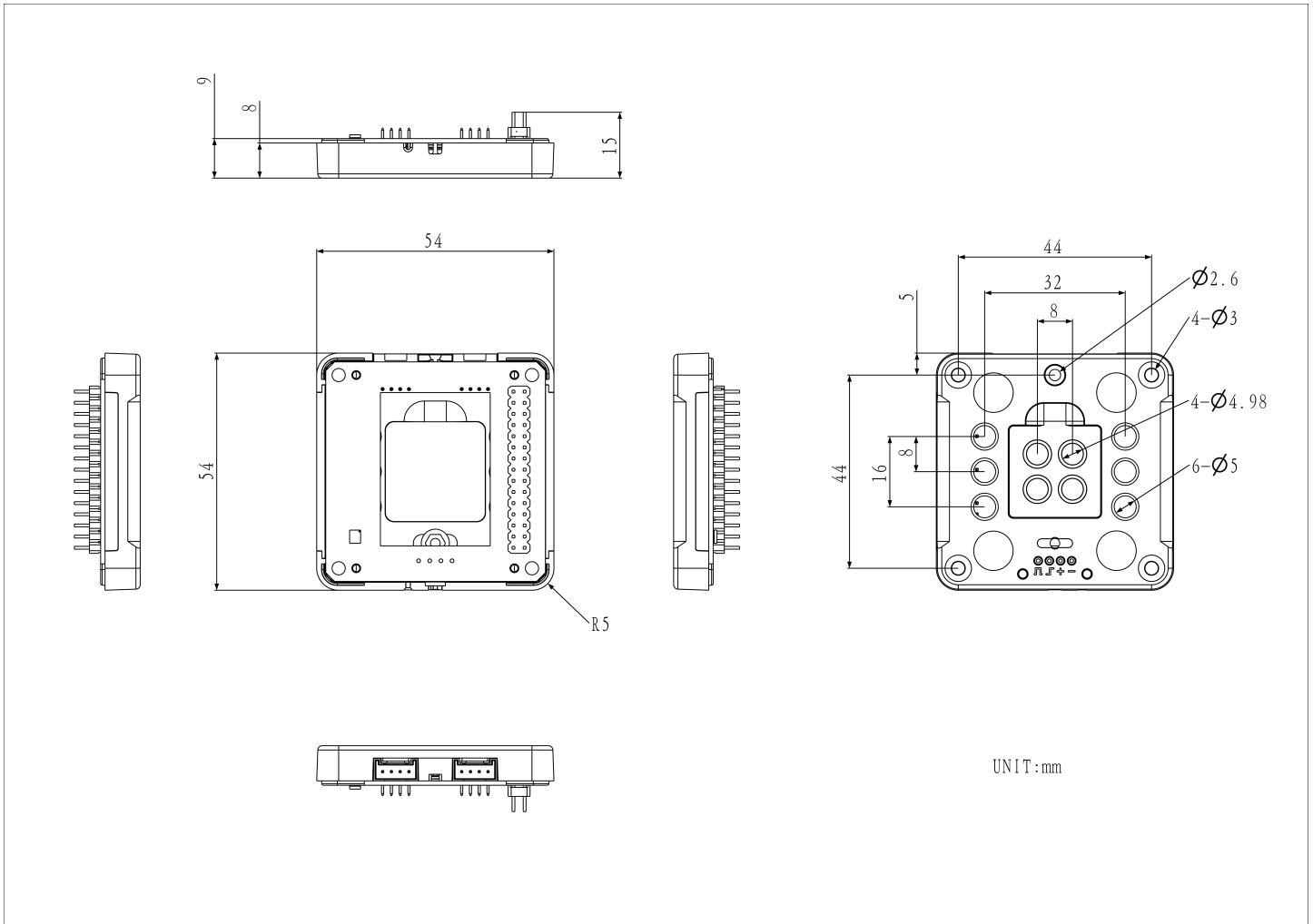
HY2.0-4P	Black	Red	Yellow	White
PORT.B	GND	5V	G26	G36
PORT.C	GND	5V	G14	G13

M5-Bus

PIN	LEFT	RIGHT	PIN
GND	1	2	NC
GND	3	4	PORT.B
GND	5	6	NC
NC	7	8	RGB LED
NC	9	10	PORT.B
NC	11	12	3V3
NC	13	14	NC
UART_RX	15	16	UART_TX
IMU_SDA	17	18	IMU_SCL
NC	19	20	NC
NC	21	22	NC
NC	23	24	I2S_LRCK
NC	25	26	I2S_DIN
NC	27	28	5V
NC	29	30	BAT

Model Size

- [Base M5GO Bottom2 v1.3 Model Size PDF](#)



Datasheets

- [BMI270](#)
- [TP4057](#)
- [LMD4020T261-OAC23](#)

Softwares

Arduino

- [IMU](#)
- [MIC](#)
- [RGB LED](#)

Video

Product Comparison

Product Comparison



	Base M5GO Bottom2 v1.3	Base M5GO Bottom	Base M5GO Bottom2	Base M5GO Bottom3
Core	Core2	Basic (Core)	Core2	CoreS3
RGB	10*SK6812	10*SK6812	10*SK6812	10*WS2812
IMU	BMI270	/	MPU6886	/
IR	/	IR	/	IR
BATTERY	500mAh	500mAh	500mAh	500mAh
MIC	LMD4020	SPQ2410	LMD4737	/