

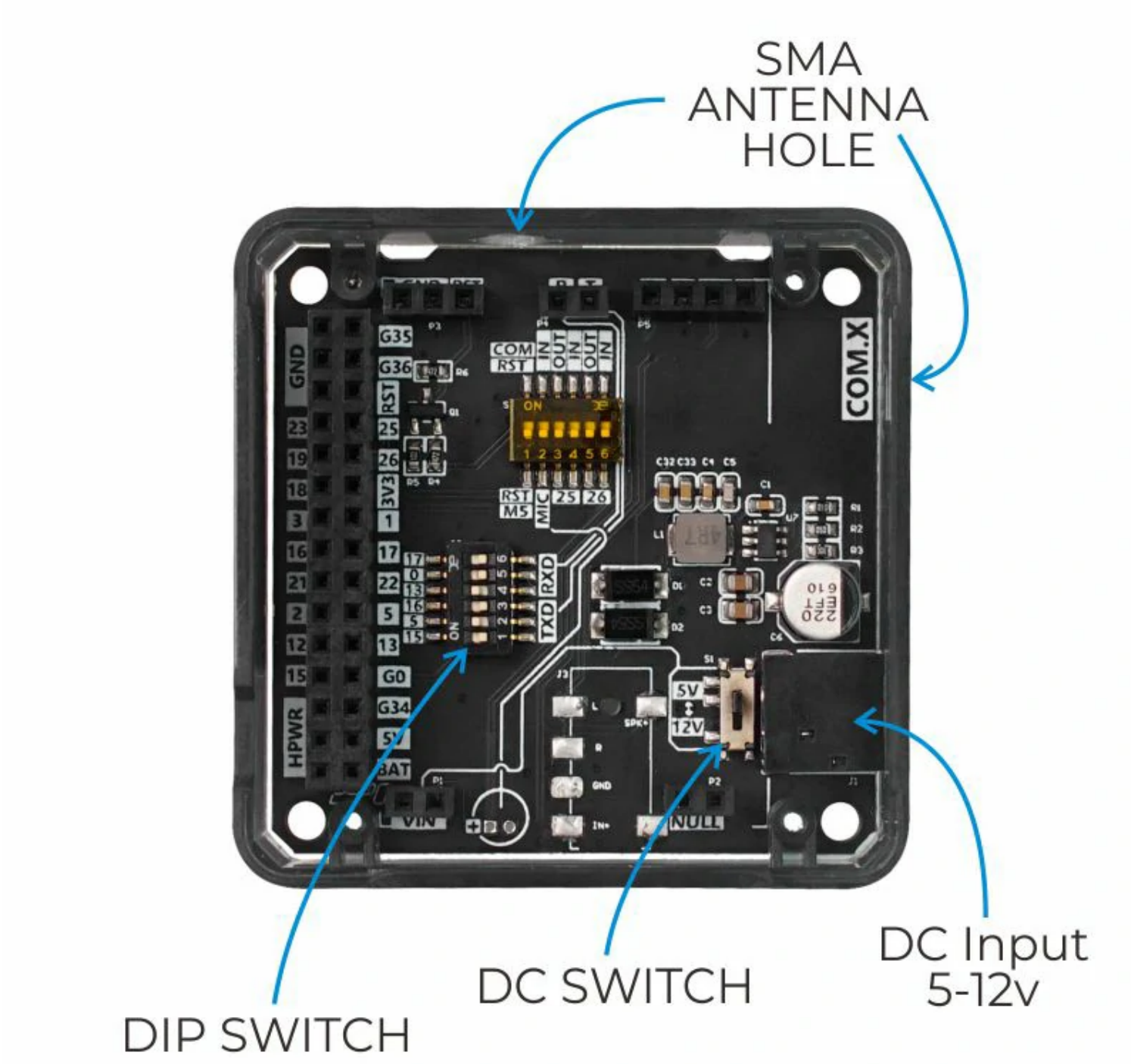
COM GSM

SKU:M031-D



Description

COM GSM is a stackable 2G communication module, with the SIM800C communication module built-in. The working frequency of COM GSM is GSM/GPRS 850/900/1800/1900MHz, and it can transmit SMS and data information with low power consumption. The module has a DC power input and can provide 5V-12V power supply through an external power supply. In order to facilitate the user to configure the pins, the DIP switch is used to set the pins. This module is especially suitable for remote meter reading, smart wearables, smart parking, municipal management and other IoT industries with ultra-low power consumption and small size as the core requirements.



Notice

When used with the **FIRE** main control, due to the PSRAM pin conflict, please switch the DIP switch pins of the module base to TX(0/13), RX(5/15), and the device can use USB/ External DC is used for power supply.

When used with **Core2** series main control, due to the different order of the base pin array, COM.X base pins TX(16),

?

RX(17) correspond to the actual pins TX(14), RX of the Core2 main control (13) The equipment needs to use external DC for power supply.

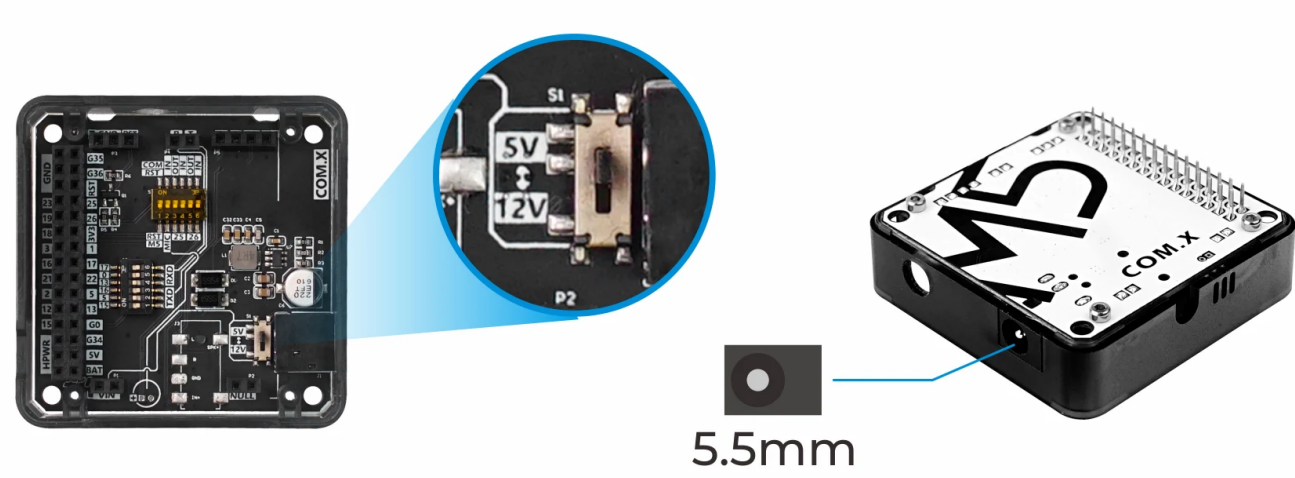
Note: When **using** the CORE2 **or** CORE2-FOR-AWS main control **to** drive the **module**, please use the DC power input of the base **and** set the power mode to input mode (refer to the code below), otherwise it will **not** start normally

```
//mbus_mode_t:
//kMBusModeOutput: Use USB or battery power
//kMBusModeInput: Use external power supply 5V, or DC interface

M5.begin(true, true, true, false, kMBusModeInput);

//Initialize Serial according to the actual connected pins
Serial2.begin(115200, SERIAL_8N1, 13, 14);
```

The module base has a DC power input interface. Please strictly follow the input range (5-12V) to prevent damage to the module when using this interface to connect to the power supply. The internal power DIP switch can adjust the voltage level of the internal terminal VIN to adapt to different modules.



Product Features

- Stackable design
- Support SMS text and data transmission
- Independent external power supply
- AT command control
- SIM card type: MicroSIM
- Status signal: two LED indicators (power/network status)
- Power supply voltage: 3.4-4.4V
- Typical power consumption in sleep mode: 0.88mA
- External antenna: SMA antenna 2.5dBi
- Serial communication: UART 115200bps
- Operating temperature range: -40°C to +85°C
- Frequency band:
 - Quad-band 850/900/1800/1900MHz
 - GPRS multi-slot class 12/10
 - GPRS mobile station class B
- data transmission:
 - PRS class 12: Maximum 85.6 kbps (uplink/downlink rate)
 - Support PBCCH (Packet Broadcast Control Channel)
 - Coding scheme: CS 1, 2, 3, 4
 - Integrated TCP/IP TCP/IP、UDP、HTTP、FTP protocol

- Support USSD (Unstructured Supplementary Services Data)

Include

◦ 1x COM GSM module	
◦ 1x SMA antenna	

Applications

◦ Remote meter reading system	
◦ Automatic Web Spider SMS-notifier	
◦ Wireless communication	

Specification

Resources	Parameter
Frequency band	GSM/GPRS 850/900/1800/1900MHz
Network protocol	TCP/IP/UDP/FTP/HTTP etc.
Communication	UART 115200bps
Antenna Gain	2.5dB 1880-1900MHZ/2320-2370MHZ 2575-2635MHZ
DC interface specifications	5.5mm
Net Weight	40g
Gross weight	75g
Module Size	54*54*13.2mm
Package Size	165*60*36mm

EasyLoader

	EasyLoader is a concise and fast program writer, which has a built-in case program related to the product. It can be burned to the main control by simple steps to perform a series of function verification.

[Download Windows Version Easyloader](#)

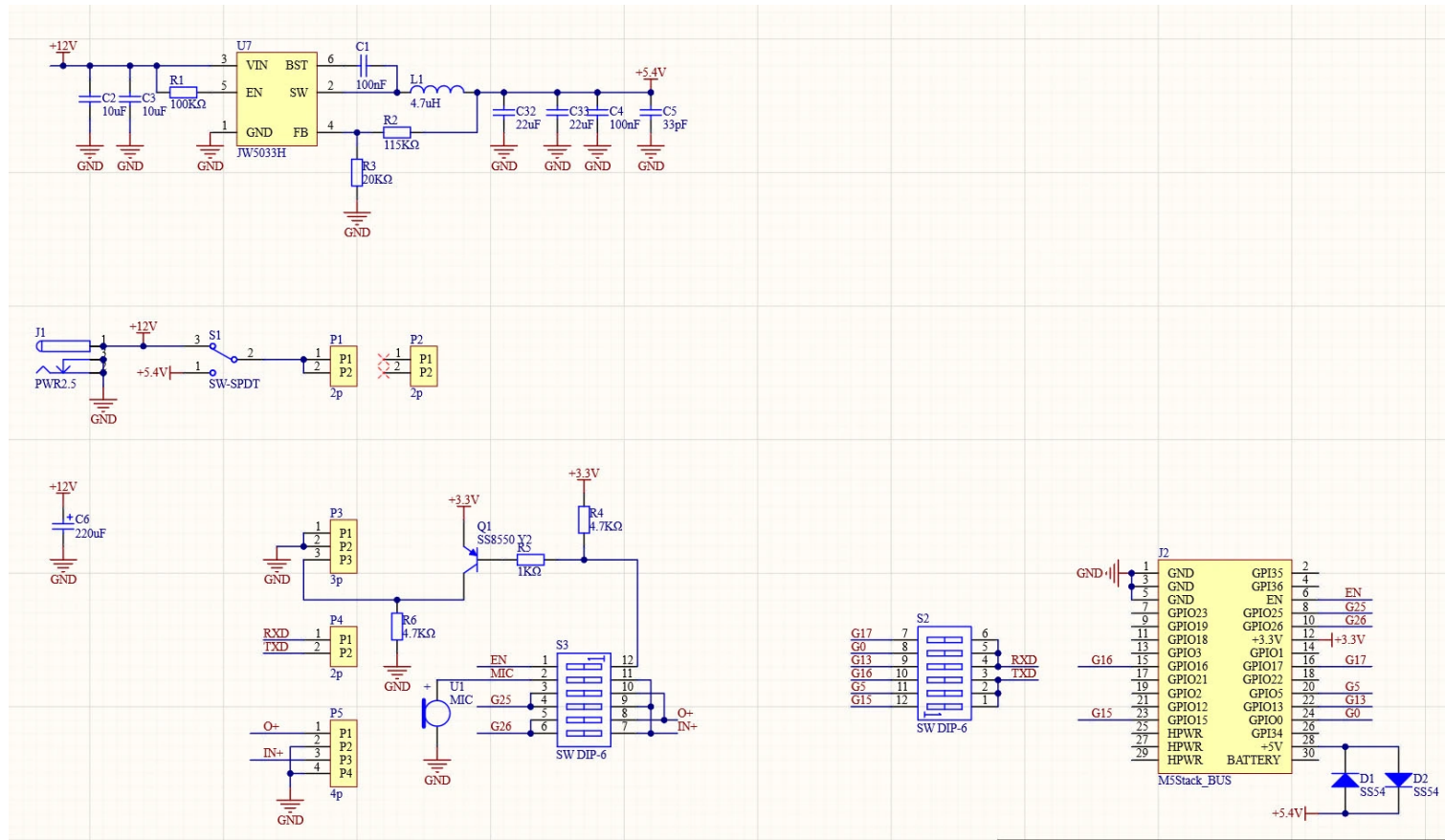
[Download MacOS Version Easyloader](#)

	Description: Power on to test signal quality and network access status
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Related Link

- **Datasheet**
 - [SIM800C datasheet](#)
- **AT Command**
 - [SIM800C AT Command](#)

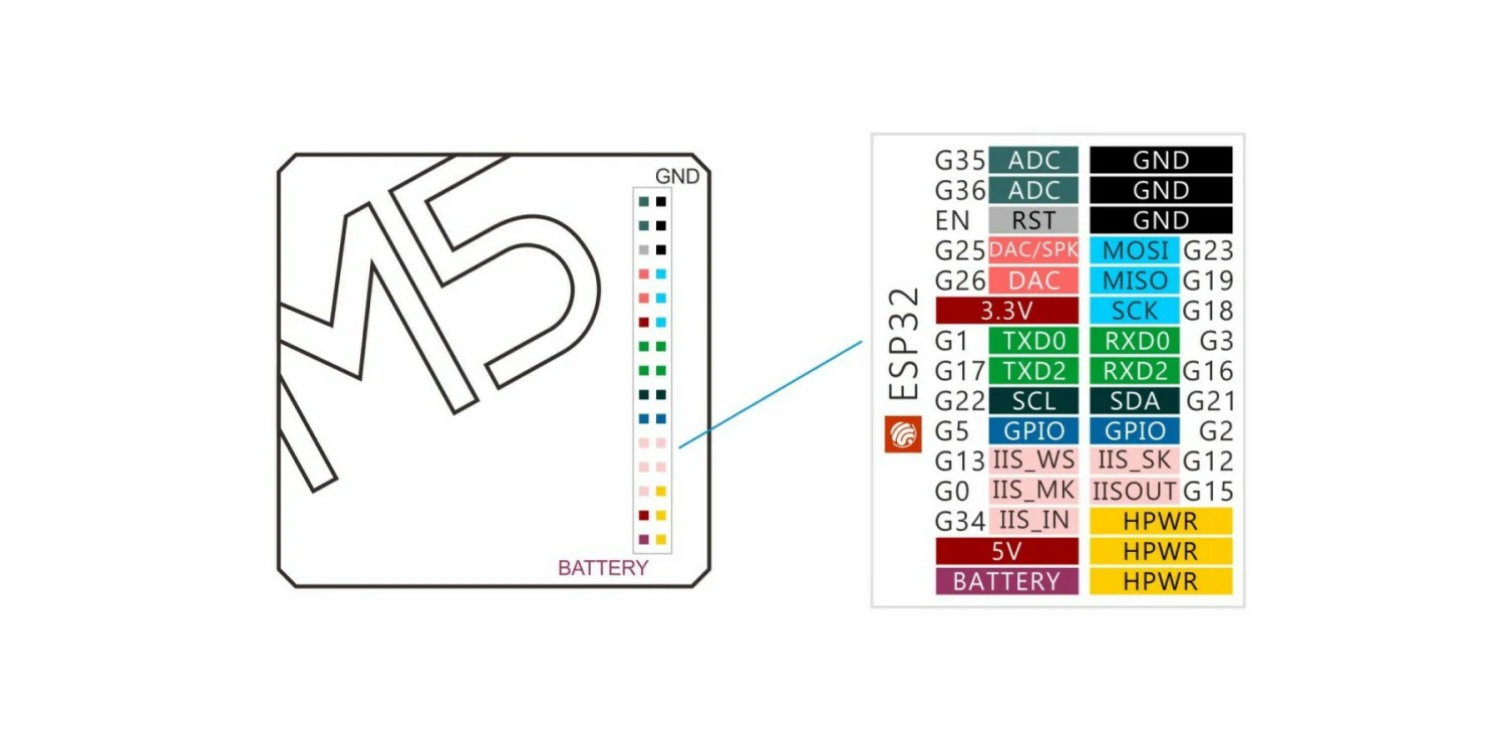
Schematic



PinMap

M5Stack	TX(GPIO0/13/17)	RX(GPIO5/15/16)	5V	GND
COM GSM	RX	TX	VIN	GND

MBUS PinMap



Example

Arduino

To get complete code, please click [here](#)

Last updated: 2020-12-23