

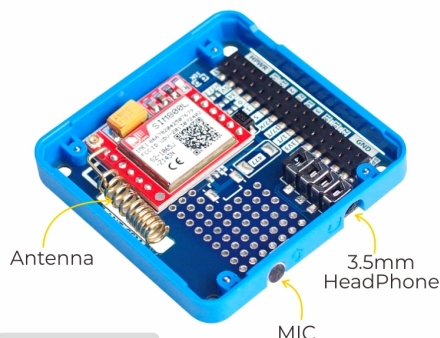
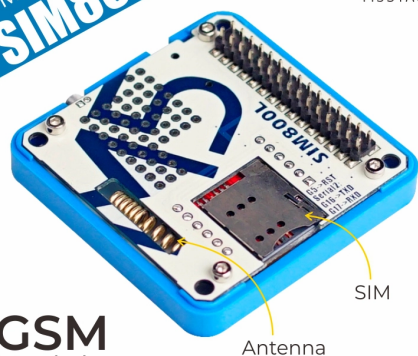
Module SIM800L

SKU:M004

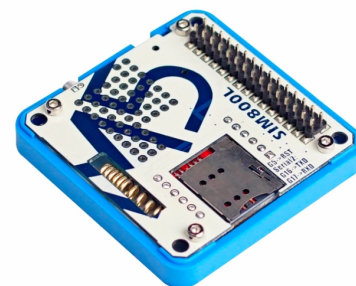
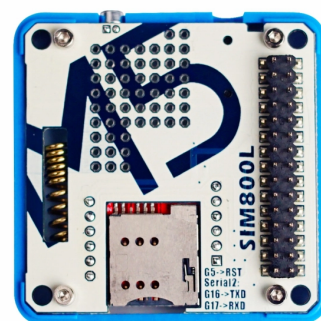
MODULE
SIM800L



GSM
Module



GPIO16->TXD
GPIO17->RXD
GPIO5->RST



Description

Module SIM800L is a GSM/GPRS communication module in the M5Stack stackable module series. It integrates the SIM800L and GSM/GPRS internally, and is only compatible with 2G networks. If you want to add a cellular module to your design for voice, text, and SMS functionality, the Module SIM800L is a great choice.

Features

- 3.5 mm audio jack
- Microphone (the microphone is disabled by default, users need to solder a 0-ohm resistor on MIC-EN to enable it)
- Power supply voltage range: 3.8V - 4.2V
- Recommended power supply voltage: 4V
- Power consumption: Sleep mode < 2.0mA Idle mode < 7.0mA GSM transmission (average): 350 mA GSM transmission (peak): 2000mA
- Module size: 25 x 23 mm
- Communication interface: UART (maximum 2.8V) and AT commands
- SIM card socket type: microSIM (bottom)
- Supported frequency bands: Quad-band (850/950/1800 / 1900 MHz)
- Antenna connector: IPX
- Onboard spring antenna
- Status signal: LED
- Operating temperature range: -40 to +85°C

Includes

- 1 x Module SIM800L

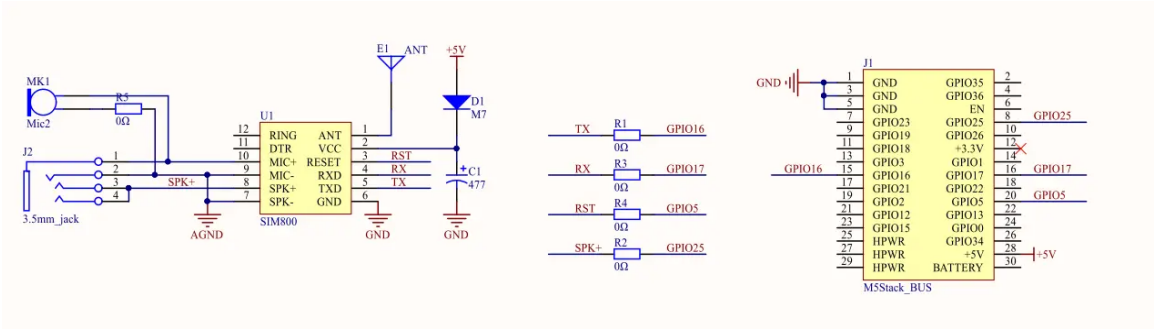
Applications

- Nitrogen dioxide alarm
- Web crawler system with SMS notification
- Remote meter reading system

Specifications

Specification	Parameter
Net weight	17g
Gross weight	27g
Product size	54.2 x 54.2 x 12.8mm
Package size	60 x 57 x 17mm

Schematics



PinMap

M5-Bus

PIN	LEFT	RIGHT	PIN
GND	1	2	
GND	3	4	
GND	5	6	
	7	8	SPK+
	9	10	
	11	12	
	13	14	
SIM_TXD	15	16	SIM_RXD
	17	18	
	19	20	RST
	21	22	
	23	24	
	25	26	
	27	28	5V
	29	30	

Softwares

Arduino

- Module SIM800L Send Message Example

- [Module SIM800L Factory Test Example](#)
- [Module SIM800L HTTP Request Example](#)

| Easyloader

Easyloader	Download Link	Notes
Module SIM800L Example Easyloader with M5Core	download	/

| Protocol

- [SIM800 AT Command](#)

| Video

- Module SIM800L - Making a Call

[sim800_call.mp4](#)

- Module SIM800L - Receiving SMS

[SMS Receive.mp4](#)