Module SIM800L

Description

SIM800L is a cellular phone module, integrated SIM800L, a GSM/GPRS module, only cpmpatible with 2G network. if you want to integrate a cellular module into your design with vioce, text and SMS, this hand-solderable module is pretty nice!

Series Protocol: UART

Product Features

- 3.5 mm phone audio jack
- MIC (MIC is disable by default. To enable it, you will need to weld a 0 ohm resistor at MIC-EN)
- Supply voltage: 3.8V - 4.2V
- Recommended supply voltage: 4V
- Power consumption: sleep mode < 2.0mA idle mode < 7.0mA GSM transmission (avg): 350 mA GSM transmission (peek): 2000mA
- Module size: 25 x 23 mm
- Interface: UART (max. 2.8V) and AT commands
- SIM card socket: microSIM (bottom side)
- Supported frequencies: Quad Band (850 / 950 / 1800 /1900 MHz)
- Antenna connector: IPX
- Spring Antenna on board
- Status signaling: LED
- Working temperature range: -40 do + 85 ° C
- Product Size：54.2mm x 54.2mm x 12.8mm
- Product weight：16.5g

M5Stack Fire has occupied GPIO16 / 17 to connect with the PSRAM by default, it's conflict with TXD / RXD (GPIO16, GPIO17) of SIM800L module. Therefore, when using the SIM800L module with the M5Stack Fire, you might have to cut the TXD and RXD from SIM800L module and wire fly to another set of UART pin

PinMap

SIM800

ESP32 Chip	
TXD	U2RXD(GPIO16)
RXD	U2TXD(GPIO17)
RST	GPIO5

Include

- 1x M5Stack SIM800L Module

Applications

- Nitrogen dioxide alarm
- Automatic Web Spider SMS-notifier
- Remote meter reading system

EasyLoader

1.EasyLoader is a simple and fast program burner. Every product page in EasyLoader provides a product-related case program. It can be burned to the master through simple steps, and a series of function verification can be performed.(**Currently EasyLoader is only available for Windows OS**)

2.After downloading the software, double-click to run the application, connect the M5 device to the computer via the data cable, select the port parameters, and click **"Burn"** to start burning.

3.The CP210X (USB driver) needs to be installed before the EasyLoader is burned.

Example

- **Arduino**

Schematic