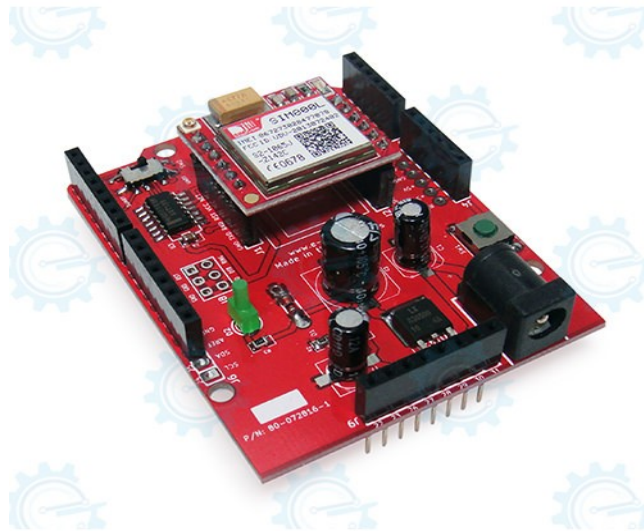


SIM800L Shield

Technical Manual Rev rev2.0



SIM800L Shield is a quad-band GSM/GPS module, a full modem serial port where user can configure. Its a simple GSM Shield SMS/Call ready to interface with your favorite gizDuino microcontroller shield boards.

Features:

- With power saving technique so that the current consumption is a low as 0.7mA in sleep mode.
- Audio channel which includes two microphone input, a receiver output and a speaker output.
- A SIM card interface
- External antenna pad

General Specifications:

External input supply: +5V DC
Current Requirement: 2.6 - 3A max
Power Supply (modem): 3.4V~4.4V (4.0V)
Frequency bands: Quad-band
Baudrate: 9600bps
Temperature range: Normal -40C ~ +85C
SIM interface: Support SIM card: 1.8V,3V
PCB Dimensions: 53mm x 70mm

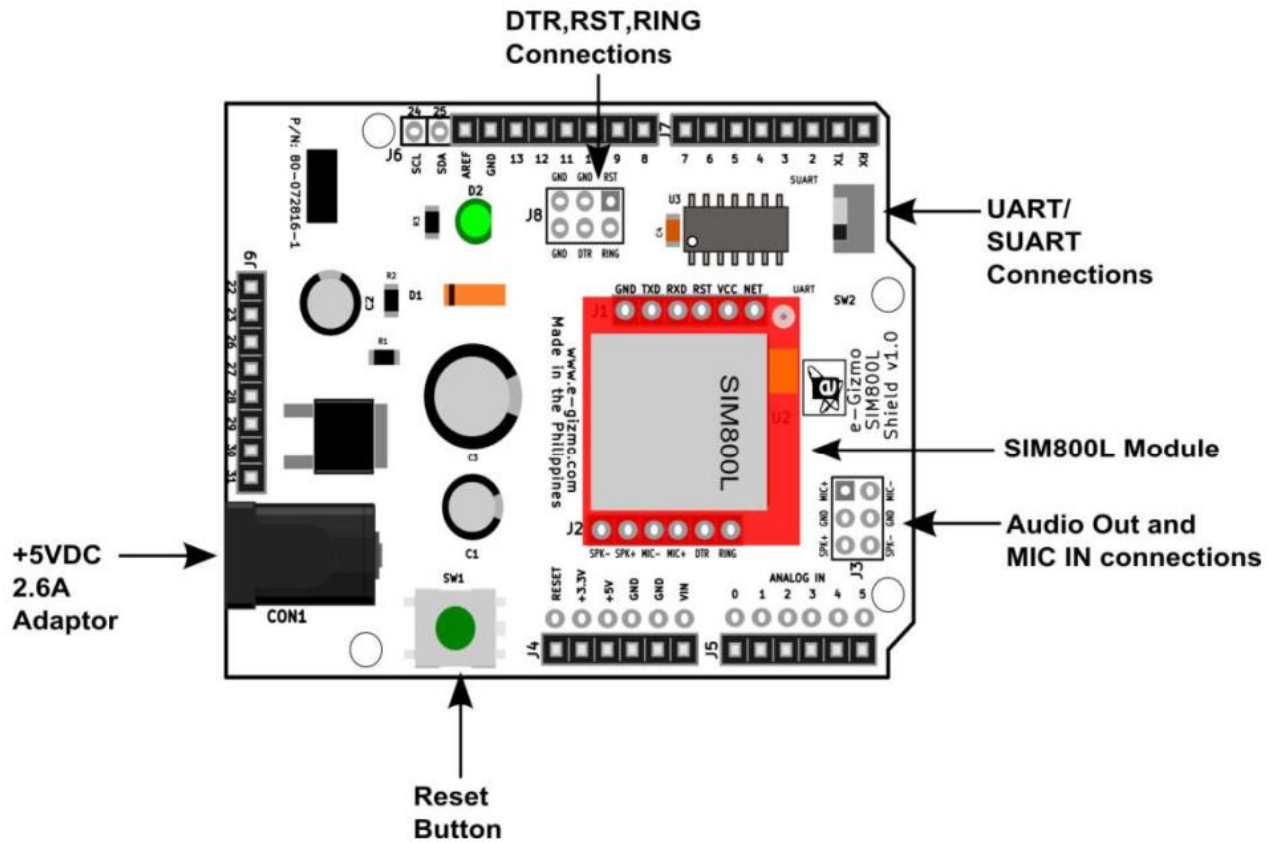


Figure 1. SIM800L Shield v1.0

Table 1. J1 Pin Description

Name	Descriptions
GND	Ground
TXD	Transmit Data
RXD	Receive Data
RST	SIM reset
VCC	4.0V Input Supply
NET	Network Status

Table 2. J2 Pin Description

Name	Descriptions
SPK-	Differential audio output (SpeakerN)
SPK+	Differential audio output (SpeakerP)
MIC-	Differential audio output (MicrophoneN)
MIC+	Differential audio output (MicrophoneP)
DTR	Data terminal ready
RING	Ring Indicator

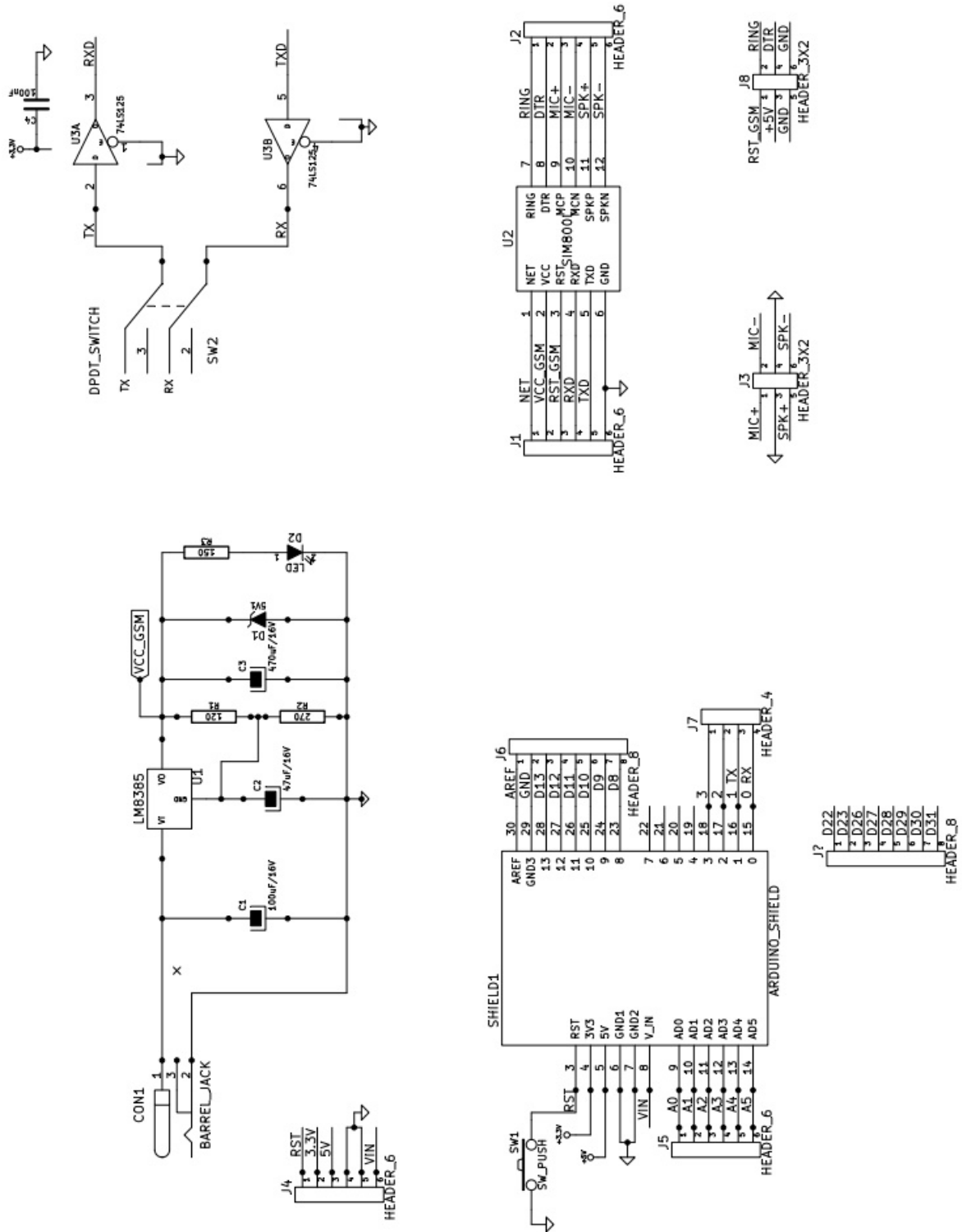


Figure 2. e-Gizmo SIM800L Shield Schematic Diagram

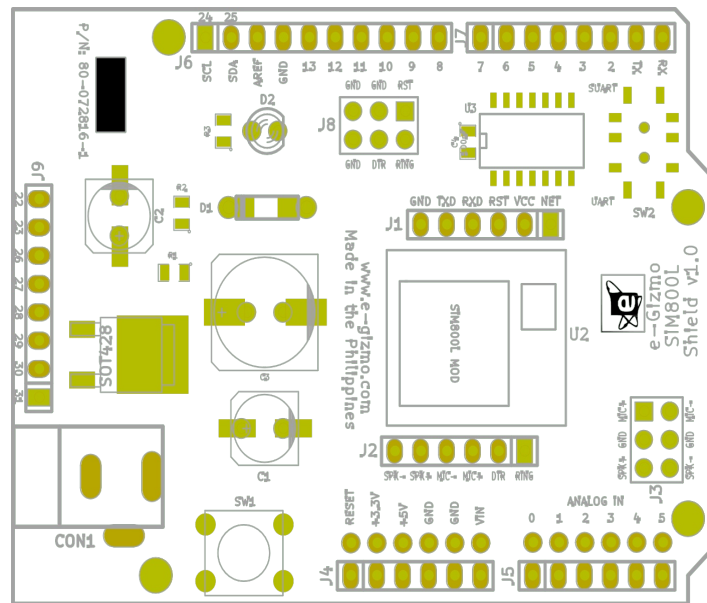


Figure 3. Parts Placement

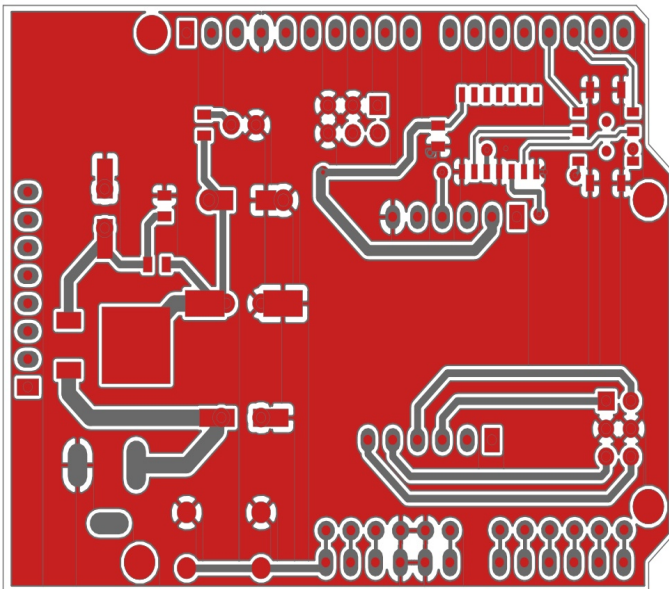


Figure 4. Top Layer Guide

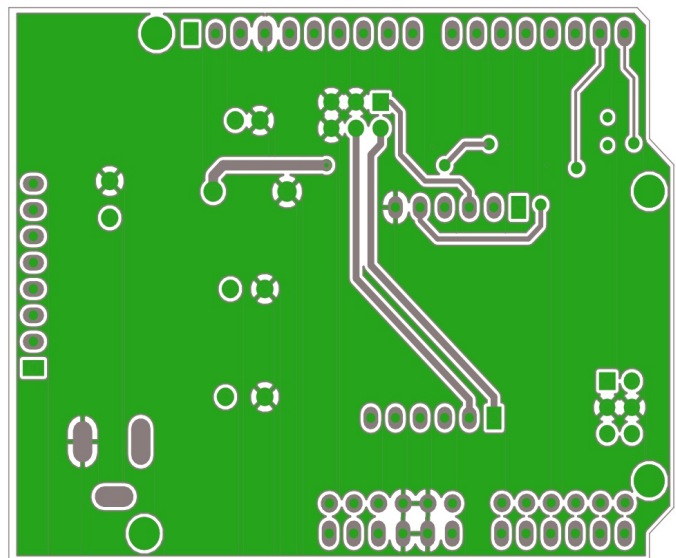


Figure 5. Bottom Layer Guide

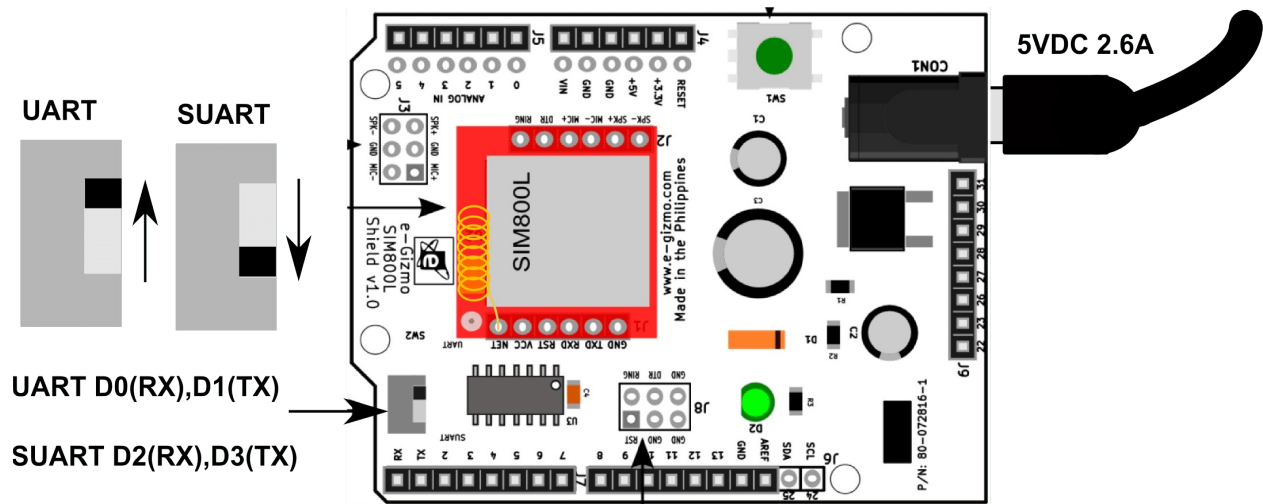
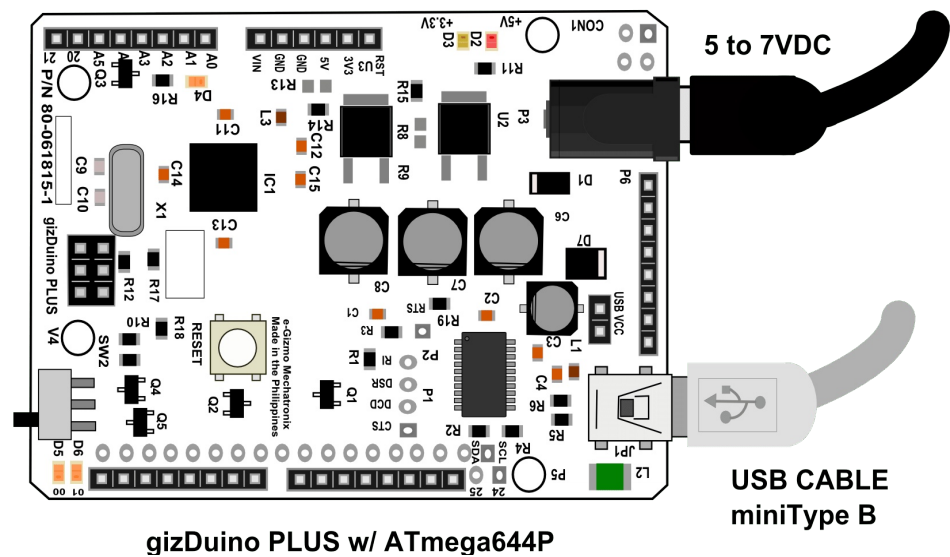


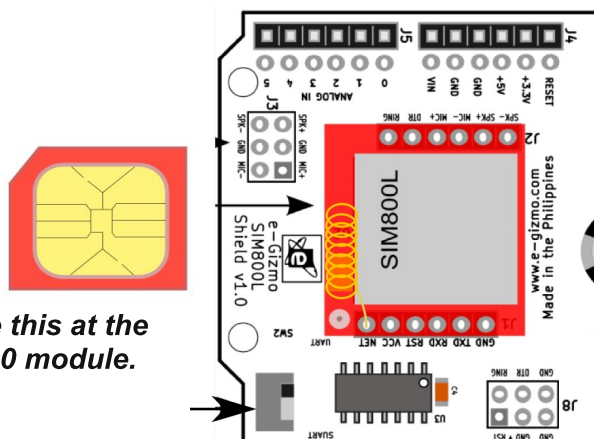
Figure 6.
Serial selections



gizDuino PLUS w/ ATmega644P

Figure 7.

Insert SIMCARD like this at the bottom of the SIM800 module.



Sample Code for sending SMS message.

**Download the
"GSM_TEST_Serial_monitor_v1.ino"**

The codes includes

```
18 #include <SoftwareSerial.h>
```

On the void setup():

```
35 send_msg("222", "BAL");
```

**Change the number
from "222" to your number "+639XXXXXXXXX":**

**Change the message
from "BAL" to any message you want.**

**After that you may upload the code and
Open the Serial Monitor..**

**(Make sure you have supply on the SIM800L
shield for the module).**

**Note: You can use GSM_Shield_Arduino
MODIFIED Libray.**