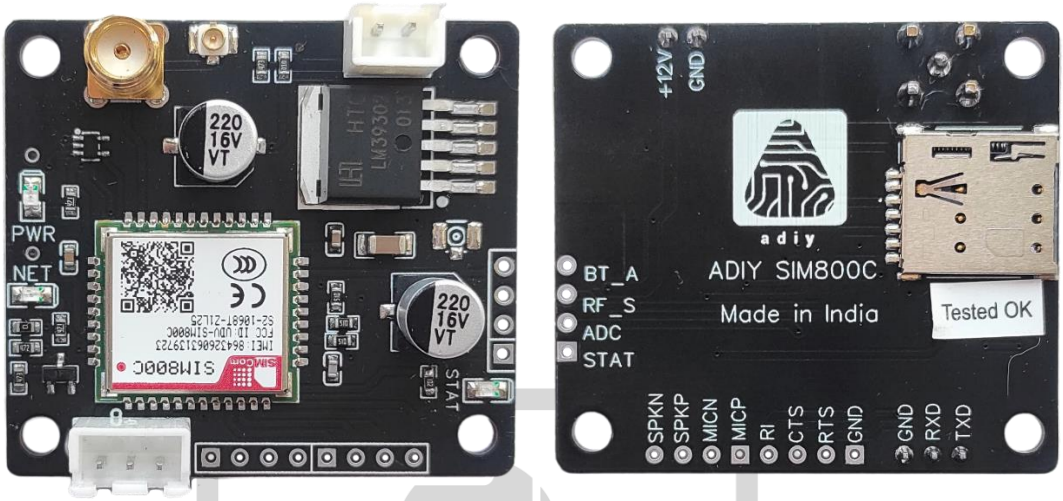
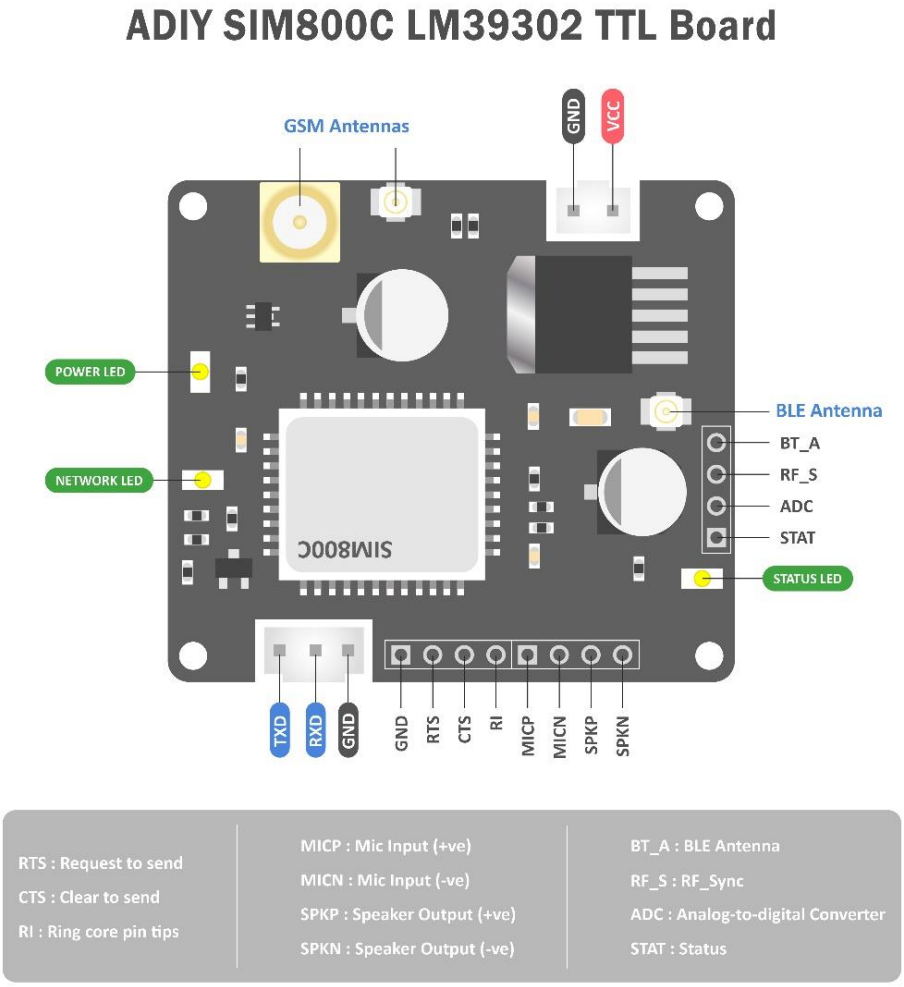
ADIY SIM800C LM39302 TTL User Guide



Description:

SIM800C has strong extension capability with abundant interfaces including UART, USB2.0, GPIO, etc. The module provides much flexibility and ease of integration for customer's applications. This is ADIY SIM 800C GSM Modem with SMA Antenna, The baud rate range of the GSM Module can be easily configured using AT commands, allowing you to set it anywhere between 9600 and 115200. This versatile GSM GPRS Modem incorporates an internal TCP/IP stack, enabling seamless internet connectivity through GPRS. Its capabilities make it a perfect choice for M2M interface applications that involve SMS, voice, and data transfer. This module is proper 2G/3G communication purpose it didn't support's 4G Communications.

Pin Functions:



1. VCC: 5- 12V / 2A
2. GND: connected Ground
3. UART (TX, RX): Logic level transmitter and received communication from external controller or any serial communication module
4. Audio and speaker pinouts (MICN, MICP, SPKN and SPKP)
5. RTS: Request to send
6. RI: Ring signal output pin
7. ADC: 12-bit ADC channel which can be used for temperature detection and other related detections.

8. NET: Network indication signal
9. PWR: power LED indicator
10. CTS: Clear to send
11. BT_A: BLE Antenna
12. RF_S: RF_Sync
13. STAT: Status
14. Main antenna: Main antenna is for GSM, GPRS , BT data communicating
15. SIM connector: Nano SIM card connector.

Installing the Arduino IDE Software:

You can install this software by clicking on the link below: -

https://www.arduino.cc/en/software

According to your operating system you can select OS from given options. In my case it's Windows 10.

Installing the QCOM tool Software:

You can install this software by put the link below in chrome: -

https://github.com/ADIY-TECH/QCOM-tool.git

How to use SIM800C LM39302 TTL BOARD:

Step 1: Before supplying power, carefully inspect the board's pinouts and component labels. Ensure the SIM card is inserted correctly, and the antenna connections are secure.

Step 2: Provide a 12V / 2A power supply to the module. This should automatically power on the module.

Step 3: Check the network LED. If LED is ON, the network is available. For more detailed information, refer to the AT commands manual.

Step 4: Connect the board to your computer using a jumper wire / JST connector .

Step 5: Check if you have already installed Drivers of your USB to UART converter (ex CP2102) on your computer.

Step 6: Then open device manager in your computer to check the COM port for that particular driver.

Step 7: Connect the same COM port in QCOM tool/ Arduino IDE software and start sending AT commands.