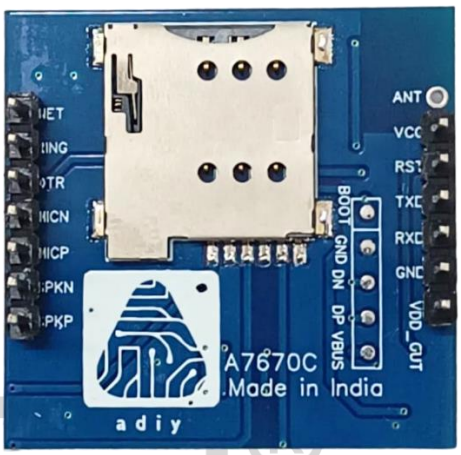
SIMA7670E 2G/4G Breakout Board





Description:

ADIY A7670E 4G/2G breakout board module supports wireless communication modes of LTE-FDD/GSM/GPRS/EDGE GSM/GPRS. It supports maximum 10Mbps downlink rate and 5Mbps uplink rate. The ADIY SIM_A7670E is compatible with SIM7000/SIM7070 series, The ADIY SIM_A7670E module which enables smooth migration LTE Cat-1(4G)/2G products, and greatly facilitates more compatible product design for the customer needs.

General features:

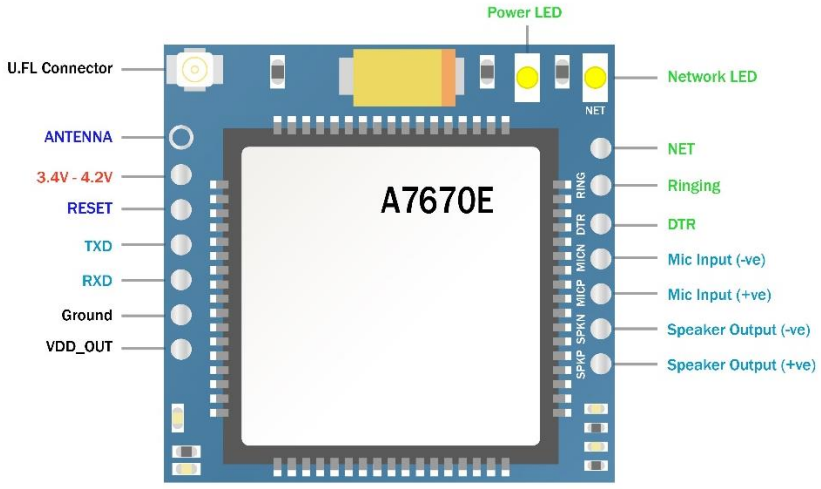
1. Power supply VBAT: 3.4V ~ 4.2V(Recommended VBAT: 3.8V)
2. VDD_1V8 logic voltage
3. Power saving Current in sleep mode : < 2.5mA
4. Operating temperature -40℃ ~ +85℃
5. Supports protocols including TCP/IP, HTTP(s), FTP(s), multi-PDP and DNS.
6. Supports dial-up, telephone calls, and SMS.
7. Frequency Band
    - LTE Cat-1: LTE-FDD: B1, B3, B5, B7, B8, B20
    - 2G: GSM/GPRS/EDGE: 900/1800 MHz
8. Data Transmission Throughput
    - GPRS multi-slot class 12

- EDGE multi-slot class 12
- LTE-FDD CAT1：10 Mbps (DL)，5 Mbps (UL)
- GSM/LTE Main antenna interface

9. SMS
    - MT,MO, CB, Text , PDU mode
    - Short Message(SMS) storage device: USIM Card, CB does not support saving in SIM Card Support CS domain and PS domain SMS
    - USIM application support SAT class 3, GSM 11.14 Release 98 Support USAT
    - Support phonebook types : SM/FD/ON/AP/SDN
10. Audio feature:
    - PCM Digital Audio interface
    - Analog audio MIC input interface(A7670E-LASE support only)
    - Analog audio SPK output interface(A7670E-LASE support only)

Pin Description:

ADIY A7670E 2G/4G Breakout Board



TXD, RXD = 1.8V operational

- Power Supply: 3.4V to 4.2V
- U.FL Connector: Antenna connection
- Spiral antenna slot: Used for large bandwidth
- Reset: To reset
- TXD: For data transmission
- RXD: For data reception
- GND: Ground
- Ring: Indication pin of ringing
- DTR: Data terminal ready; indicates that the terminal is ready for communications and the modem may initiate a communications channel
- MICP: Mic positive pin
- MICN: Mic negative pin
- SPKP: Speaker positive pin
- SPKN: Speaker negative pin

Applications:

- IOT applications
- Telematics
- Surveillance Devices
- POS, Industrial Routers
- Remote Diagnostics
- Power station monitoring and control.
- AMR (automatic meter reading).
- Weather station data transmission.
- Traffic signals monitor and control.
- Water, gas and oil flow metering.
- Parking meter and Taxi Monitor. Telecom equipment supervision (Mobile base station, microwave or optical relay station).