

Description:

The ADIY SIM A7670xx 4G/2G LTE Development Board is a Cat-1 Module which supports wireless communication modes of LTE-TDD/LTE-FDD. It supports a maximum 10Mbps downlink rate and 5Mbps uplink rate. This board features a serial interface and is based on the SIMCOM A7670xx LTE modem. The serial interface allows for simple communication with a computer or laptop via a USB to Serial adapter or TTL converter. AT instructions are used to communicate with the A7670xx.

This ADIY SIM A7670xx 4G/2G LTE Development Board has onboard UART Logic Level Conversion, and Vdd needs to be connected to host reference voltage. It has a UFL connector, which allows connection of any antenna with this board. Apart from this, the module is very compact in size. It can be easily embedded in any customized PCB and it can also be mounted using screws.

This module has sleep mode power consumption of <math><10\text{mA}</math>, allowing the board to be powered by a small Li-ion Battery. LM39302R is used to step down the input voltage, which effectively allows input voltage as low as 5V.

The SIM A7670xx 4G/2G LTE Development Board supports multiple built-in network protocols like HTTP, HTTPS, FTP, FTPS etc., supports drivers for main operation systems (USB driver for Windows, Linux and Android etc.) and software function, AT commands are compatible with SIM7500/SIM7600 series modules.

Hardware Interface Overview:

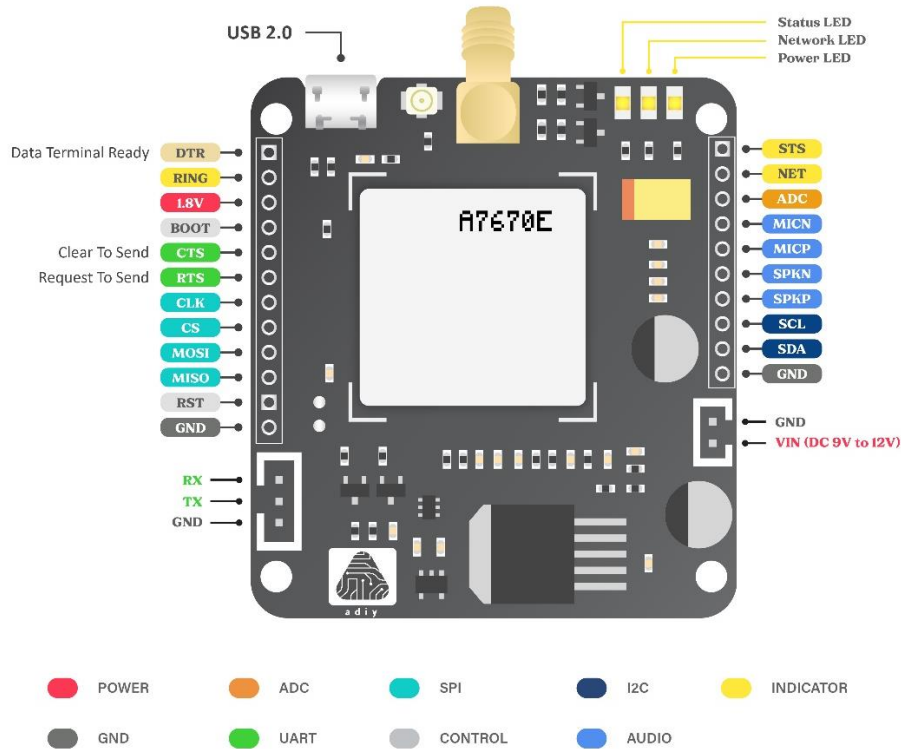
- Power Supply
- USB 2.0 Interface
- UART Interface Serial port

- SIM Interface
- ADC Interface
- Analog audio MIC input interface
- Analog audio SPK output interface
- LDO Power Output
- I2C Interface
- Antenna Interface
- USB_BOOT interface
- Network status indication interface
- Module operation status indication interface

Features:

1. Suitable for LTE networks
2. Supports LTE-FDD and LTE-TDD frequency bands.
3. Control via AT commands.
4. Nano SIM Card Holder.
5. Power LED and Network Status LED
6. Supported Band: LTE-FDD B1/B3/B5/B8, LTE-TDD B34/B38/B39/B40/B41
7. On board pins for RING, NETLIGHT, STATUS, DTR (DTE ready) and Reset
8. On-board pins for Speaker and Microphone
9. Ultra-low sleep mode current consumption: <10mA
10. Powerful TCP/IP protocol stack for internet data transfer.
11. Supports maximum 10Mbps downlink rate and 5Mbps uplink rate.
12. Abundant software functions: FOTA, LBS, SSL
13. U.FL male connector for external antenna
14. On board UART logic level conversion

Pin Description:



Applications:

1. IOT applications
2. Telematics
3. Surveillance Devices
4. POS, Industrial Routers
5. Remote Diagnostics
6. Power station monitoring and control.
7. AMR (automatic meter reading).
8. Weather station data transmission.
9. Traffic signals monitor and control.
10. Water, gas and oil flow metering.
11. Parking meter and Taxi Monitor. Telecom equipment supervision (Mobile base station, microwave or optical relay station).