SIM5320E 3G MODULE

Sim5320E is a GSM/GPRS module. You can send a message, make a call, transfer data though the GPRS or something else.

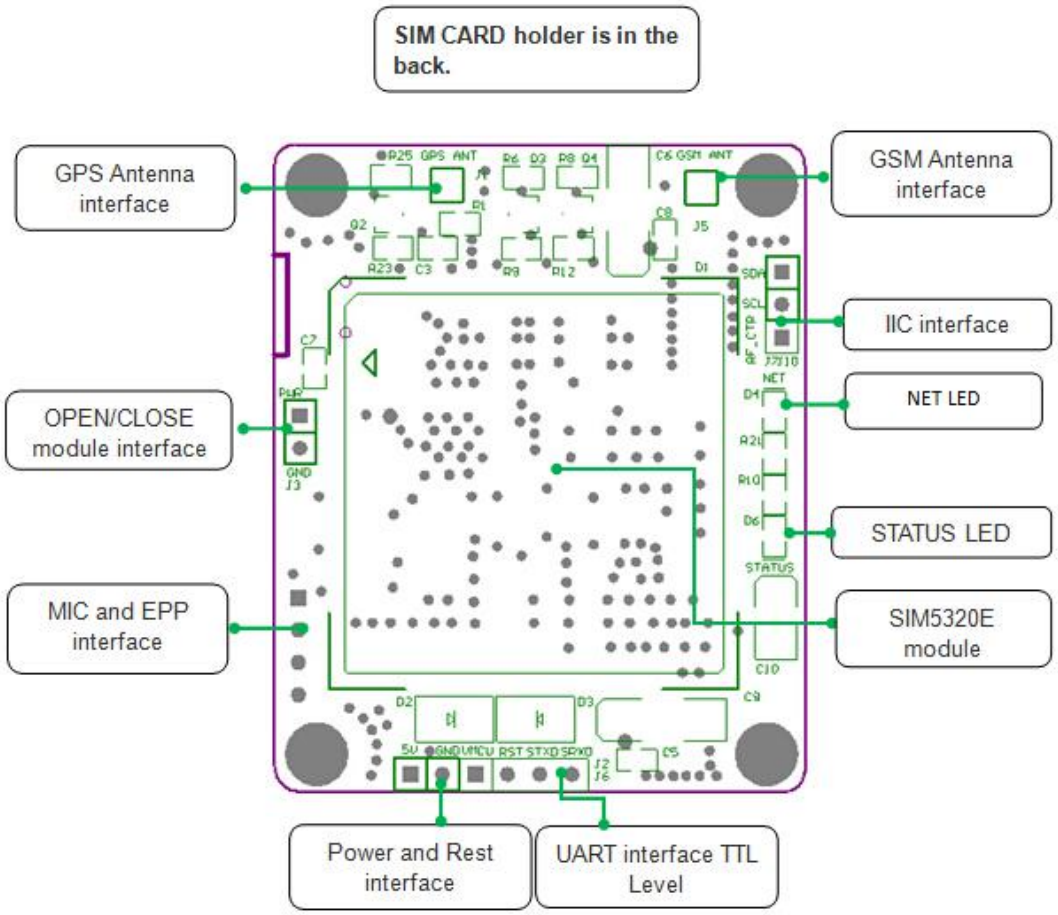
Overview

This SIM5320E V3.8.2 module has a set of TTL level serial interface, a set of power supply interface. Besides, there are two set of antenna interface on this module, and one is designed for GPS and the other is for GSM/GPRS.

Basic features

- Arduino 51 STM32 AVR MCU compatible
- Prototype expand
- The frequency: 850/900/ 1800/1900 /WCDMA 900/WCDMA2100 MHz.
- Power supply range: voltage is 4.6-5.2v; current is 1A or more(the current is very important).
- Operating temperature range: -40 degrees C to +85 C
- Communication interface: The TTL level serial interface compatible 2.85 3.3 5v MCU
- Size:41*50mm

Hardware



The description of 1*6 pins:

5V	GND	VMCU	RST	TXD	RXD

Use the TTL interface connect with a MCU

MCU	SIM5320E MOULE
TXD	**SRXD**
RXD	**STXD**
DC power positive pole	**VMCU**
GND	**GND**
POWER(4.6-5.2v)	**5V**

Notice that:

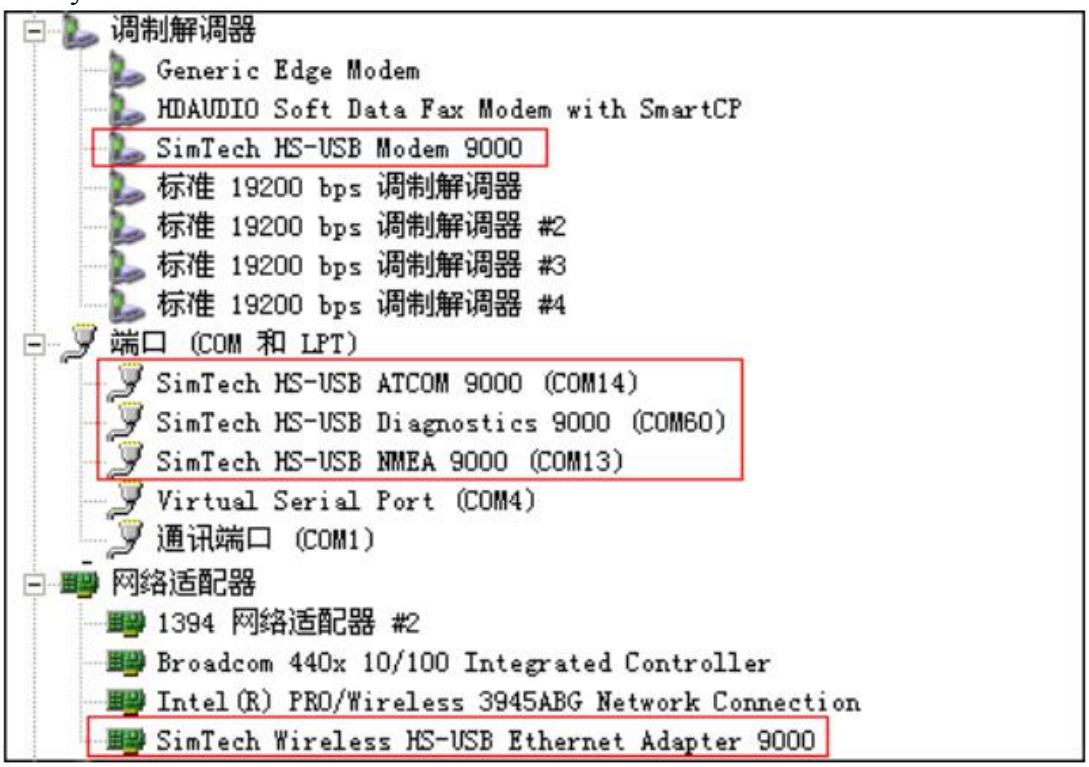
1. The pin of VMCU is used for compatible the TTL interface. When the high level of the MCU is 5v like the 51 MCU, we should connect the DC5V to VMCU, when controller is 3.3V like the stm32 MCU, the VMCU should connect the DC3.3V.

You also can use the Micro USB interface to control this module. When you use the USB interface, you should power this module by a power adapter though the 5V GND.

Besides, you should install the diver which has been offered for the USB interface.

When you connect this module to PC, and the driver has been installed correctly, you can see 5 COM offer by PC. And the ATCOM and NEMA are important.

We can send AT command to control it by ATCOM. And after we send the AT+CGPS=1 to open the GPS function by ATCOM, we can receive the NEMA GPS data by NEMACOM.



Software

We send AT commands to control module through the serial port, and almost all the instructions are end with a newline. You can refer to SIM5320_AT_Command_Manual_V1.05_REVISED to get the AT command.

Hardware

We referred to theSIM5320_Hardware_Design_V1.05 to design this module.

Revision History

REV.	Description	Date
V1.0	Initial version	2015/6/8