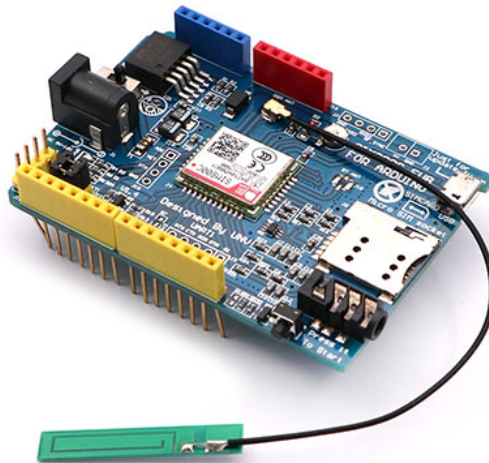# GSM SIM800C Development Board

Description

SIM800C is a four frequency GSM/GPRS module, for castle hole package. Its stable performance, compact appearance, high cost performance, to meet customer needs.

SIM800C Chip

SIM800C working frequency is 850/900/1800/1900MHz GSM/GPRS, it can achieve low power consumption. Transmission of voice, SMS and data information. SIM800C size is 17.6*2.3mm*15.7, can be applied to a variety of compact product design requirements.

Main characteristics

- Four frequencies 850/900/1800/1900MHz
- short message
- FTP/HTTP, built-in TCP/UDP protocol
- DTMF detection, Bluetooth 3.0 (optional), USB interface

Hardware

- The power supply interface supports 5-26V voltage input. When the voltage is 5-9V, the power adapter current can provide no less than 2A; And support lithium battery (3.6-4.2V)
- Communication interface for TTL level serial port. Fully compatible with Arduino, and compatible with other 5V, 3.3V, 2.85V systems.
- Can through the jumper cap choose to use hardware serial port (D1 D0) or software serial port (D8 D7).
- Support SIM800C firmware update via USB or serial port.
- Can be upgraded to development board with Bluetooth version.
- MICRO SIMCARD holder.
- Supports the four segments of the headphone jack (type I).

- Built-in TV tube, SIM card to protect IC, two 100UF tantalum capacitors and other ways to stabilize the performance of the development board.

Software

- It communicates with the external system through the TTL level serial port. By default, it can communicate directly with the 5V system without level matching. When communicating with 3.3V system and 2.85V system, it is necessary to do some processing on the hardware. We will do a detailed introduction in the user manual.
- The communication interface (command) is the AT command, that is, the control module realizes the function completely through the AT command, such as: the control module makes a call using ATD*******; (* is the phone number of the other party). We will provide a complete AT command set.

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