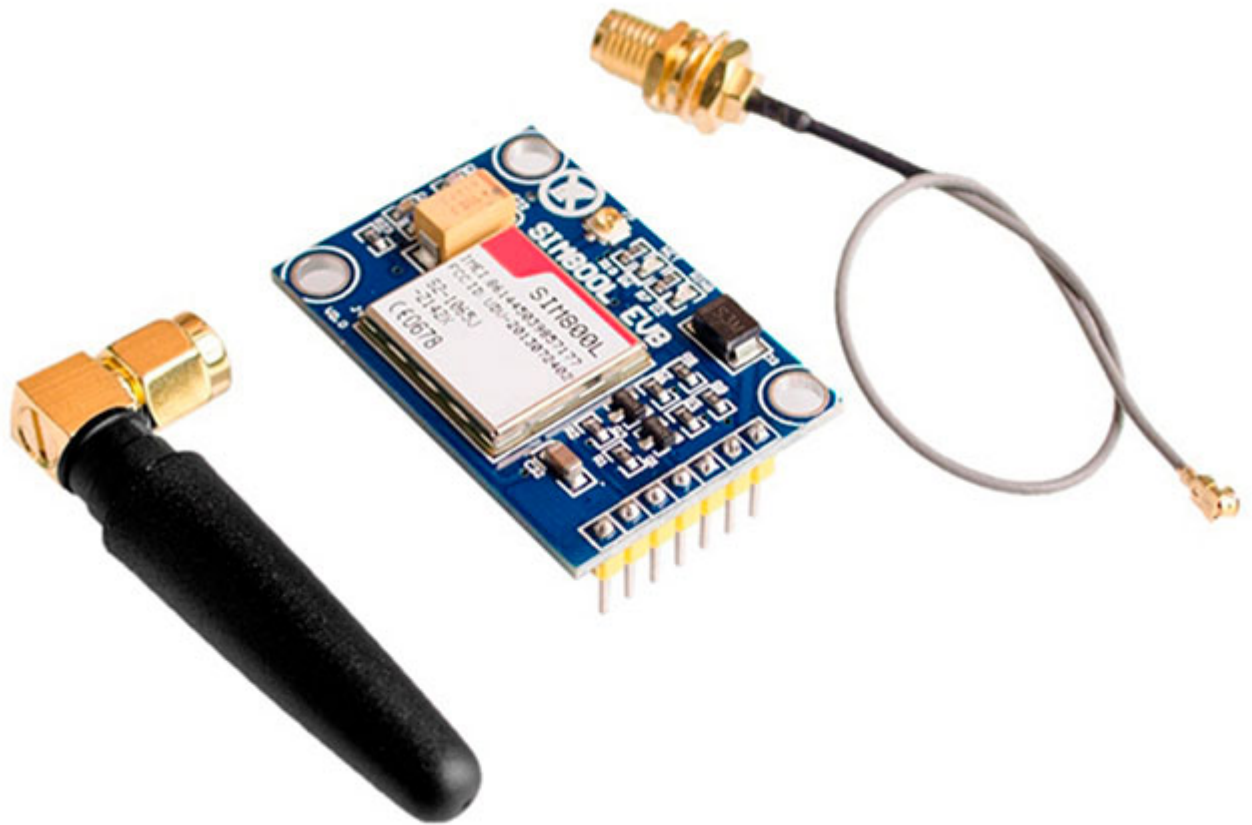


SIM800L V2.0 5V Wireless GSM GPRS MODULE Quad-Band W/ Antenna Cable Cap



Overview

This SIM800L module has a set of TTL level serial interface, a set of power supply interface. Besides, there are a set of antenna interface on this module.

The chip of SIM800L basic features

SIM800H is a complete Quad-band GSM/GPRS solution in a LGA type which can be embedded in the customer

Applications:

SIM800H support Quad-band 850/900/1800/1900MHz, it can transmit Voice, SMS and data information with low power

Consumption:

With tiny size of 15.8*17.8*2.4 mm, it can fit into slim and compact demands of customer design. Featuring Bluetooth, FM and Embedded AT, it allows total cost savings and fast time-to-market for customer applications.

General features

Quad-band 850/900/1800/1900MHz

GPRS multi-slot class 12/10

GPRS mobile station class B

Compliant to GSM phase 2/2+

- Class 4 (2 W @ 850/900MHz)

- Class 1 (1 W @ 1800/1900MHz)

Bluetooth: Compliant with 3.0+EDR

FM: 76~109MHz worldwide bands with 50 KHz tuning step

Dimensions: 15.8*17.8*2.4mm

Weight: 1.35g

Control via AT commands (3GPP TS 27.007, 27.005 And SIMCOM enhanced AT Commands)

Supply voltage range 3.4 ~ 4.4V

Low power consumption

Operation temperature:-40 ~85

Specifications for GPRS Data

GPRS class 12: Max. 85.6 kbps (downlink/uplink)

PBCCH support

Coding schemes CS 1, 2, 3, 4

PPP-stack

CSD up to 14.4 kbps

USSD

Non transparent mode

Specifications for SMS via GSM/GPRS

Point to point MO and MT

SMS cell broadcast

Text and PDU mode

Software features

0710 MUX protocol

Embedded TCP/UDP protocol

FTP/HTTP

MMS

E-MAIL

DTMF

Jamming Detection

Audio Record

TTS

Embedded AT (optional)

Specifications for voice

Triode

- Half rate (HR)

- Full rate (FR)

- Enhanced Full rate (EFR)

AMR

- Half rate (HR)

- Full rate (FR)

Hands-free operation

Echo suppression

Interfaces

88 LGA pads including:

Analog audio interface

RTC backup

Serial interface

Interface to external SIM 3V/1.8V

GSM Antenna pad

FM Antenna pad

Bluetooth Antenna pad

Compatibility

AT cellular command interface Certifications (Plan):

CE

GCF

FCC

ROHS

REACH

The module Basic features

51 STM32 AVR MCU compatible

Prototype expand

The frequency is 850/900/ 1800/1900 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

LED: Two led, the Net led and the RING led.

Size:27*39mm

SIMCARD: micro SIMCARD holder

The description of pins:

The name of pins Description

5v Power interface Power the module

CONNECT TO DC5v

GND

VDD TTL UART interface The TTL UART serial interface, you can connect the MCU like 51MCU or ARM or MSP430 directly. The pin of VDD is used to match volta

SIM_TXD

SIM_RXD

GND if this pin is unused, keep open

RST RST the module, if this pin is unused, keep open

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