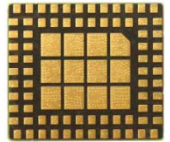




GSM/GPRS Module



SIM800H

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.

Smart Machine Smart Decision

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 50KHz 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°C ~85°C

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

- Tricodex
 - 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
 - PCM interface
 - RTC backup
 - Serial interface
 - USB interface
 - Interface to external SIM 3V/1.8V
 - Keypad interface
 - GPIO
 - ADC
 - GSM Antenna pad
 - FM Antenna pad
 - Bluetooth Antenna pad

Compatibility

- AT cellular command interface

Certifications(Plan):

- CE
- GCF
- FCC
- ROHS
- REACH

More about SIMCom SIM800H
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