

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
- 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

- •Tricodec
 - 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 Please contact:

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All specifications are subject to change without prior notice.