

SIM800A

SIMCOM SIM800A is a complete Dual-band GSM/GPRS solution in a SMT type which can be embedded in the customer applications. SIMCOM SIM800A support Dual-band 900/1800MHz, it can transmit Voice, SMS and data information with low power consumption. With tiny size of 24*24*3mm, it can fit into slim and compact demands of customer design. Featuring Bluetooth and Embedded AT, it allows total cost savings and fast time-to-market for customer applications.



SIMCOM SIM800A Technical Specifications:

- * Dual-band 900/1800MHz
- * GPRS multi-slot class 12/10
- * GPRS mobile station class B
- * Compliant to GSM phase 2/2+
 - Class 4 (2 W @ 900MHz)
 - Class 1 (1 W @ 1800MHz)
- * Dimensions: 24*24*3mm
- * Weight: 3.1g
- * Control via AT commands(GSM 07.07 ,07.05 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)
- * 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 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
- * Bluetooth 3.0 (optional)
- * SSL

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

- * 68 SMT pads including
- * Analog audio interface
- * USB interface
- * SPI interface (optional)
- * RTC backup
- * Serial interface
- * Interface to external SIM 3V/1.8V
- * SIM card interface(3V/ 1.8V)
- * GPIO
- * ADC
- * GSM Antenna pad
- * Bluetooth Antenna pad

Compatibility

- * AT cellular command interface

Certifications

- CE
- CCC
- ROHS
- REACH
- TA
- CTA (Test on going)