



GSM/GPRS Module



SIM900A

SIMCom presents an ultra compact and reliable wireless module. The SIM900A is GSM/GPRS module in a SMT type which is designed specially for Chinese market, allowing you to benefit from small dimensions and cost-effective solutions.

Featuring an industry-standard interface, the SIM900A delivers GSM/GPRS 900/1800MHz performance for voice, SMS, Data, and Fax in a small form factor and with low power consumption. With a tiny configuration of 24mm x 24mm x 3 mm, SIM900A can fit almost all the space requirements in your applications, especially for slim and compact demand of design.

Smart Machine Smart Decision

General features

- Dual-Band 900/ 1800 MHz
- GPRS multi-slot class 10/8
- GPRS mobile station class B
- Compliant to GSM phase 2/2+
 - Class 4 (2 W @900 MHz)
 - Class 1 (1 W @ 1800MHz)
- SAIC (Single Antenna Interference Cancellation) support
- Dimensions: 24* 24 * 3 mm
- Weight: 3.4g
- Control via AT commands (GSM 07.07 ,07.05 and SIMCOM enhanced AT Commands)
- SIM application toolkit
- Supply voltage range : 3.2 ... 4.8V
- Low power consumption: 1.0mA(sleep mode&BS-PA-MFRMS=9)
- Operation temperature: -40° C to +85 ° C

Specifications for Fax

- Group 3, class 1

Specifications for GPRS Data

- GPRS class 10: max. 85.6 kbps (downlink)
- PBCCH support
- Coding schemes CS 1, 2, 3, 4
- PPP-stack

Specifications for CSD Data

- 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

Enhanced version add following features:

- FOTA (available at Q3 2010)
- MMS (available at Q3 2010)
- Embedded AT (available at Q3 2010)

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

- Interface to external SIM 3V/ 1.8V
- Analog audio interface
- RTC backup
- SPI interface
- Two Serial interfaces
- Antenna pad
- I2C
- GPIO
- PWM
- ADC

Compatibility

- AT cellular command interface

Approvals:

- ROHS
- TA
- REACH

More about SIMCom SIM900A

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