



SIM900

SIMCom presents an ultra compact and reliable wireless module-SIM900. This is a complete Quad-band GSM/GPRS module in a SMT type and designed with a very powerful single-chip processor integrating AMR926EJ-S core, allowing you to benefit from small dimensions and cost-effective solutions.

Featuring an industry-standard interface, the SIM900 delivers GSM/GPRS 850/900/1800/1900MHz 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, SIM900 can fit almost all the space requirements in your M2M applications, especially for slim and compact demands of design.

Smart Machine Smart Decision

General features

- Quad-Band 850/900/1800/1900 MHz
- •GPRS multi-slot class 10/8
- •GPRS mobile station class B
- Compliant to GSM phase 2/2+
- Class 4 (2 W @850/900 MHz)
- Class 1 (1 W @ 1800/1900MHz)
- •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

- •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

Special firmware

- Embedded AT
- Java (cooperate with lasolution)
- •FOTA
- MMS

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 (option)
- Serial interface
- Antenna pad
- •I2C
- •GPIO
- •PWM
- •ADC

Compatibility

•AT cellular command interface

Certifications:

•CE

- •FCC
- •ROHS
- •PTCRB
- •GCF •IC
- •ICASA
- •REACH

Carrier Approvals:

- •NCC
- Anatel
- Rogers
- Orange
- •AT&T
- Vodafone

More about SIMCom SIM900 Please contact:

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All specifications are subject to change without prior notice.