



GSM/GPRS Module



SIM900-DS

SIMCom presents an ultra compact and reliable wireless module---SIM900-DS with special features, **Dual-SIM Dual-Standby, which allows customers to use two SIM cards in one device simultaneously.** This is a complete Quad-band GSM/GPRS module with a SMT type and designed with a very powerful single-chip processor integrating ARM926EJ-S core, allowing you to benefit from small dimensions and cost-effective solutions.

Featuring an industry-standard interface, SIM900-DS 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 24*24*3 mm **same as SIM900**, it 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: 1.5mA(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

- MMS
- E-MAIL
- DTMF
- NETSCAN
- JD
- 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

- SIM Card Interfaces (**Dual Standby**)
 - SIM card 1: 3V/ 1.8V
 - SIM card 2: 3V/ 1.8V
- Analog audio interface
- RTC backup
- SPI interface
- Serial interface
- Antenna pad
- PCM
- I2C
- GPIO
- ADC

Compatibility

- AT cellular command interface

More about SIMCom SIM900-DS Please contact:

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