



# GSM/GPRS Module



## SIM900D

SIMCom presents an ultra compact and reliable wireless module-SIM900D. 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. Furthermore, SIM900D can be compatible with SIM340DZ.

Featuring an industry-standard interface, the SIM900D 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 33mm x 33mm x 3 mm, SIM900D 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: 33\* 33 \* 3 (mm)
- Weight: 6.2g
- 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
- 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 (option)
- Serial interface
- Embedded SIM (option )
- Antenna pad
- GPIO
- ADC
- Charge interface for Li battery
- PWM

### Compatibility

- AT cellular command interface

### Approvals:

- ROHS
- REACH
- GCF
- CE

### Approvals (on going)

- FCC
- IC

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