

GSM/GRRS Module



SIM900B

SIMCom presents a compact and reliable wireless module-SIM900B which is compatible with the module-SIM300/340 and SIM340E. This is a complete Quad-band GSM/GPRS module in a B2B 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 SIM900B delivers GSM/GPRS 850/900/1800/1900MHz performance for voice, SMS, Data, and Fax in a small form factor and with low power consumption. SIM900B can fit almost all requirements in your M2M applications.

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: 40* 33 * 3 mm
- •Weight: 7g
- •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 \sim +85 $^{\circ}$ 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

Enhanced version features:

- •FOTA
- •MMS
- Embedded AT

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

- •60 PIN Board-to-board connector
- •Interface to external SIM 3V/ 1.8V
- •Two analog audio interface
- •RTC backup
- •SPI interface
- Serial interface
- •SIM Card
 - -Option1: SIM Holder
 - -Option2: Embedded SIM
- Keypad
- •GPIO
- •PWM
- •ADC
- •Antenna connector

Compatibility

•AT cellular command integracer Approvals:

•NCC

Orange

Vodafone

•AT&T

Certifications

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

More about SIMCom SIM900B Please contact:

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All specifications are subject to change without prior notice.