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.

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)
•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 3.4 ... 4.5 V
•Low power consumption
•Operation temperature: -30 ° C to +80 ° C

Specifications for Fax

•Group 3, class 1

Specifications for Data

•GPRS class 10: max. 85.6 kbps (downlink)
•PBCCH support
•Coding schemes CS 1, 2, 3, 4
•CSD up to 14.4 kbps
•USSD
•Non transparent mode
•PPP-stack

Specifications for SMS via GSM/GPRS

•Point-to-point MO and MT
•SMS cell broadcast
•Text and PDU mode

Drivers

•MUX Driver

Specifications for Voice

•Tricodec
– Half rate (HR)
– Full rate (FR)
– Enhanced Full rate (EFR)
•Hands-free operation （Echo suppression）
•AMR
- Half rate (HR)
- Full rate (FR)

Interfaces

•Interface to external SIM 3V/ 1.8V
•analog audio interface
•RTC backup
•SPI interface
•Serial interface
•Embedded SIM (option)
•Antenna pad
•GPIO
•ADC
•Charge interface for Li battery
•PWM

Compatibility

•AT cellular command interface

Certificates（on going）

•CE
•FCC
•ROHS
•PTCRB
•GCF
•IC
•TA

More about SIMCom SIM900A
Please contact:
Tel: 86-21-32523300
Fax: 86-21-32523301
Email: simcom@sim.com
Website: www.sim.com/wm

All specifications are subject to change without prior notice.