

GSM/GRRS+GRS-Module



SIM908

SIM908 module is a complete Quad-Band GSM/GPRS module which combines GPS technology for satellite navigation. The compact design which integrated GPRS and GPS in a SMT package will significantly save both time and costs for customers to develop GPS enabled applications.

Featuring an industry-standard interface and GPS function, it allows variable assets to be tracked seamlessly at any location and anytime with signal coverage.

Smart Machine Smart Decision

General features

- •Quad-Band 850/900/18001900MHz
- •GPRS multi-slot class 10
- •GPRS mobile station class B
- •Compliant to GSM phase 2/2+
- Class 4 (2 W @ 850/900 MHz)
- Class 1 (1 W @ 1800/1900MHz)
- •Control via AT commands (GSM 07.07,07.05 and SIMCom enhanced AT Commands)
- •SIM application toolkit
- •Supply voltage range:
 - -GPRS: 3.2 ~ 4.8 V
 - -GPS: 3.0 ~ 4.5V
- •Low power consumption
- •Dimensions: 30*30*3.2mm
- •Weight:
 - SIM908:5.2g
- SIM908-C:11.1g
- •Operation temperature:
- -40 ° C to +85 ° C

Specifications for SMS via GSM / GPRS

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

Specifications for audio

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

Specifications for data transfer

- •GPRS class 8/10: 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
- •Integrated TCP/IP stack

Compatibility

AT cellular command interface

Specification for GPS

- •Receiver type
- 42-channel
- GPS L1 C/A code,
- High-performance STE engine
- Sensitivity
- Tracking: -160 dBm - Cold starts: -143 dBm
- •Time-To-First-Fix
- Cold starts: 30s (typ.)
 Hot starts: 1s (typ.)
- Accuracy
- -Horizontal position: <2.5m CEP
- •Power consumption (GSM engine in idle mode)
 - Acquisition 77mATracking 76mA

Interfaces

- •80-pad with SMT type
- •Interface to external SIM 3V/ 1.8V
- •Dual analog audio interfaces
- •SPI interface
- •RTC backup
- Charge interface
- •A serial interface and a debug interface for GSM/GPRS
- •Debug interface for GPS NMEA information output
- •Two separate antenna connectors for GSM/GPRS&GPS

Certifications

- •CE
- •ROHS

More about SIMCom SIM908 Please contact:

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All specifications are subject to change without prior notice