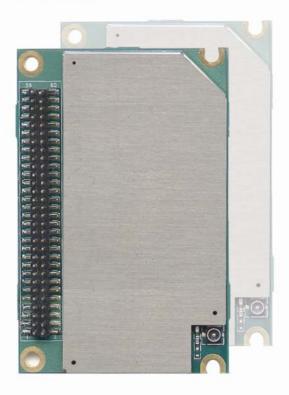# SIM300C
GSM/GPRS Module

The SIM300C is a complete Tri-Band/Quad-Band* GSM/GPRS solution in a compact plug-in module with DIP board-to-board connector.

Featuring an industry-standard interface, the SIM300C delivers GSM/GPRS 900/1800/1900MHz or 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 50mm x 33mm x 6.2 mm, SIM300C can fit almost all the space requirement in your industrial application, such as M2M, Telematics and other mobile data communication systems.

- Tri- Band/Quad-Band GSM/GPRS module with a size of 50x33x6.2mm
- DIP type board-to-board connector suit for vehicle application
- Customized MMI and keypad/LCD support
- An embedded Powerful TCP/IP protocol stack
- Based upon mature and field-proven platform, backed up by our support service, from definition to design and production

* Quad-Band version(SIM340C) will be released @Q2,2006

We make future wireless

General features

- Tri-Band GSM/GPRS 900/ 1800/ 1900 MHz or Quad-Band* 850/900/1800/1900MHz
- 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)
- Dimensions: 50* 33 * 6.2 mm
- Weight: 12 g
- 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
- Normal operation temperature:
     -20 °C to +55 °C
- Restricted operation temperature:
     -30 °C to -25 °C and +55 °C to +80 °C
- Storage temperature
     -40 °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

Specifications for voice

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

Drivers

- Microsoft Windows Mobile . RIL Driver
- MUX Driver

Interfaces

- Interface to external SIM 3V 1.8V
- 60 Pins Board-to-board connector
- Two analog audio interfaces
- Keypad interface
- LCD interface
- RTC backup
- AT commands via serial interface
- Dual - serial interfaces
- Antenna connector and antenna pad
- Charge interface

Compatibility

- AT cellular command interface

Approvals

- FTA
- Local Type Approval
- CE

* Quad-Band version(SIM340C) will be released @Q2,2006