

# SIM345

## GSM/GPRS Module Solution



The SIM345 is a complete Quad-band GSM/GPRS solution in a compact plug-in module.

Featuring an industry-standard interface, the SIM345 delivers GSM/GPRS 850/900/1800/1900 MHz performance for voice, SMS, Data, and Fax in a small form factor and with low power consumption.

The leading features of SIM345 make it ideal for virtually unlimited applications, such as AMR, AVL, Security and other M2M applications.

- Quad- band GSM/GPRS module
- 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

***We make future wireless***

**General features**

- Quad-Band GSM/GPRS 850/ 900/ 1800 /1900 MHz
- 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: 58.4\*32.2\*3.9 mm external dimensions( excluding shielding pins)
- Weight: < 12 g
- SIM application toolkit
- Supply voltage range 3.3 ... 4.5 V
- Low power consumption
- Normal 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

**Specifications for voice**

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

**Drivers**

- MUX Driver

**Interfaces**

- Interface to external SIM 3V/ 1.8V
- 60 Pins Board-to-board connector
- Two analog audio interfaces
- Keypad interface
- SPI/12C interface
- RTC backup
- Two UART interfaces
- Antenna connector and antenna pad

**Compatibility**

- AT cellular command interface

**Approvals**

- GCF
- CE
- ROHS
- FCC
- PTCRB

**More about SIMCom SIM345****module Please contact:**

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