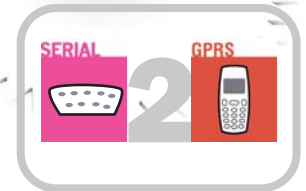




# SIM345

## 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.

Integrating the award-winning eDevice TCP/IP stack, the SIM345 includes, in addition to standard TCP sockets, a DNS client, an FTP client and an e-mail client. The SIM345 can also embed custom applications coded in C able to process and analyze the data before relaying it over the GPRS network.

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

- > eDevice TCP/IP protocol stack embedded
- > Quad-band GSM/GPRS module with a size of 58.4x32.2x3.1mm(±0.3mm)
- > Based upon mature and field-proven platform
- > Backed up by SIMCOM/eDevice support service, from definition to design and production.

### General features

- Quad-Band 850/900/1800/1900 MHz
- GPRS multi-slot class 10
- GPRS mobile station class B
- Compliant to GSM phase 2/2+
  - Class 4 (2W @ 900 MHz)
  - Class 1 (1W @ 1800 MHz)
- Dimensions : 58.4 x 32.2 x 3.1 mm(0.3mm)
- Weight: <12g
- SIM application toolkit
- Supply voltage range 3.3 ... 4.5 V
- Low power consumption
- Normal operation temperature:
  - 30°C to +70°C
- Restricted operation temperature:
  - 35°C to -30°C and +70°C to 80°C
- Storage temperature
  - 40°C to +85°C

### Specifications for fax

- Group 3, class 1

### Specifications for data

- GPRS class 10: max. 85.6 kbps (downlink)
- Full TCP/IP stack driven through AT#
- DNS, FTP, POP3, SMTP, TCP, UDP
- PBCCH support
- Coding schemes CS 1,2,3,4
- CSD up to 14.4 kbps
- USSD
- Non transparent mode
- PPP-stack

### Specifications for SMS

- 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)
- Hand-free operation (Echo suppression)
- AMR
  - Half rate (HR)
  - Full rate (FR)

### Drivers

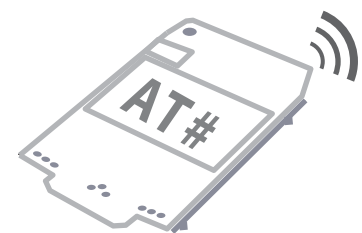
- MUX Driver

### Interfaces

- Interface to external SIM 3V 1.8V
- 60 Pins Board-to-board connector
- Two analog audio interfaces
- Keypad interface
- SPI/I2C interface
- RTC backup
- Two UART interfaces
- Antenna connector and antenna pad

### Approvals

- GCF
- CE
- ROHS
- FCC
- PTCRB



*More than 2 Million Products in the Field*