

The SIM305/345 is a complete Dual-band/Quad-band GSM/GPRS solution in a compact plug-in module.

Featuring an industry-standard interface, the SIM305/345 delivers GSM/GPRS 850/900/1800/1900MHz performance for Voice, SMS, Data, and Fax in a small form factor and with low power consumption.

The leading features of SIM305/345 make it ideal for M2M applications such as AMR, AVL, Security.

General features

- Dual-Band GSM/GPRS 900/1800MHz or Quad-Band GSM/GPRS 850/900/1800/1900MHz
- GPRS multi-slot class 10
- GPRS mobile station class B
- Compliant to GSM phase 2/2+
 - Class 4 (2 W @ 850/900MHz)
 - Class 1 (1 W @ 1800/1900MHz)
- Dimension: 58*32*3.9mm
- Weight: <12g
- SIM application toolkit
- Supply voltage range 3.4 ... 4.5 V
- Low power consumption
- Normal operation temperature: -30°C to +80°C
- Restricted operation temperature: -40°C to -30°C and +80°C to +85°C
- Storage temperature: -45°C to +90°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)

Interfaces

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