R800C

SIMCom GSM/GPRS Module

15.7mm

17.6mm 2.3mm

Quad-Band

GPRS

LCC

TCP/IP

Compact Size

DTMF

MUX

UART
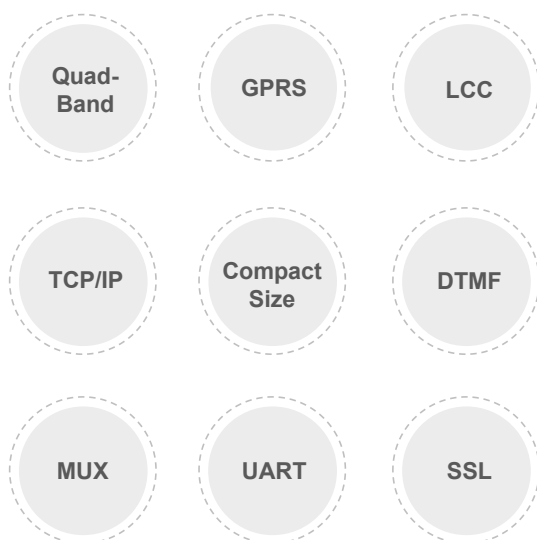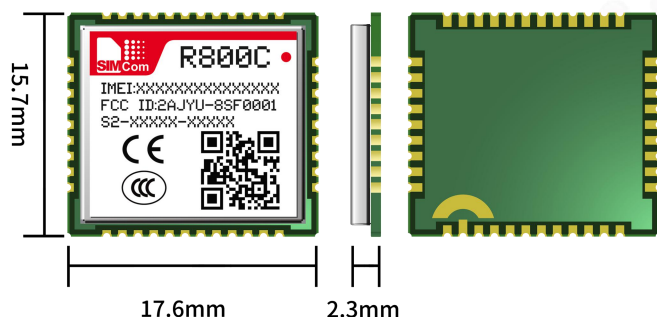
SSL

Product Description

The R800C is a Quad-Band GSM/GPRS module in a LCC type which supports GPRS up to 85.6kbps data transfer. It has strong extension capability with abundant interfaces including UART, USB2.0, GPIO etc. The module provides much flexibility and ease of integration for customer's applications.

The R800C adopts LCC form factor and is compatible with SIM800C, which greatly facilitates more compatible product design for the customer needs.

Due to the unique combination of performance, security and flexibility, the module is ideally suited for many applications, such as smart meter, security, remote diagnostics etc.

Key Benefits

◆ Small size dual-band GSM/GPRS module

◆ LCC form factor, compatible with SIM800C

◆ Low Power consumption

◆ Embedded TCP/UDP protocols

General Features

Frequency Bands	850/900/1800/1900MHz
GPRS multi-slot class	12/10
Dimensions	17.6*15.7*2.3mm
Weight	1.3±0.1g
Supply Voltage	3.4V ~ 4.4V
Operation temperature	-40℃ ~ +85℃
Compliant GSM phase 2/2+	Class 4 (2W @ 850/900MHz)
	Class 1 (1W @ 1800/1900MHz)
Control Via AT Commands(3GPP TS 27.007, 27.005 & SIMCom enhanced AT Commands)	
Low Power consumption	

Software Features

0710 MUX protocol
Embedded TCP/UDP protocol
FTP/HTTP/MQTT/NTP
LBS*
SSL/TLS*
TTS*
EAT*

Specifications for GPRS Data

GPRS class 12: Uplink/Downlink up to 85.6Kbps
PBCCH support
Coding schemes CS 1, 2, 3, 4
PPP-stack
USSD

Specifications for SMS via GSM/GPRS

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

Interfaces

Analog audio interface
UART
(U)SIM card(1.8V/3V)
RTC
ADC
GPIO
Antenna: GSM

Certifications

3C/SRRC/NAL
CE/FCC

Note

*: optional