
















Wireless Modules > GSM/GPRS Module

SIM800C

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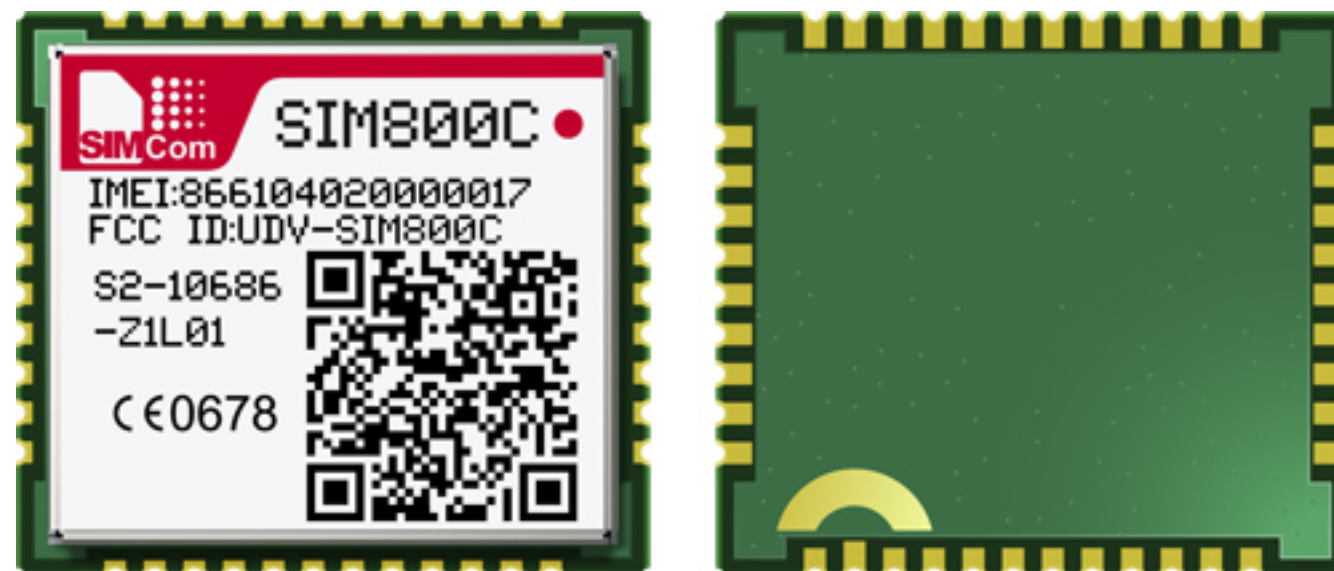


-  2G(GSM/GPRS)
-  Quad-Band 2G
-  SMT
-  TTS
-  Embedded AT
-  MMS
-  SSL Encryption
-  Jamming Detection
-  USB
-  Bluetooth
-  Serial interface
-  SIM Access Profile
-  RIL Driver
-  RLS Monitoring
-  Antenna Diagnostics

SIM800C Introduction

SIM800C is a complete Quad-band GSM/GPRS solution in a SMT type, which can be embedded in the customer applications.

SIM800C supports Quad-band 850/900/1800/1900MHz, it can transmit Voice, SMS and data information with low power consumption. With tiny size of 17.6*15.7*2.3mm, it can smoothly fit into slim and compact demands of customer design.



Details

General features

- Quad-band 850/900/1800/1900MHz
- GPRS multi-slot class 12/10
- GPRS mobile station class B
- Compliant to GSM phase 2/2+
 - Class 4 (2 W @ 850/900MHz)
 - Class 1 (1 W @ 1800/1900MHz)
- Dimensions: 17.6*15.7*2.3mm
- Weight: 1.3g
- Control via AT commands
(3GPP TS 27.007, 27.005 and SIMCom enhanced AT Commands)
- Supply voltage range 3.4 ~ 4.4V
- Low power consumption
- Operation temperature:-40°C ~85°C

Specifications for voice

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

Interfaces

- 42 SMT pins including
 - Analog audio interface
 - RTC backup
 - USB interface

Specifications for GPRS Data

- GPRS class 12: max. 85.6 kbps (downlink/uplink)
- 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

Software features

- 0710 MUX protocol
- Embedded TCP/UDP protocol
- FTP/HTTP
- MMS
- POP3/SMTP
- DTMF
- Jamming Detection
- Audio Record
- SSL
- Bluetooth 3.0(optional)

- Serial interface

- Interface to external SIM 3V/1.8V

- GPIO

- ADC

- GSM Antenna pad

- Bluetooth Antenna pad

Compatibility

- AT cellular command interface

Certifications

- CE

- FCC

- GCF

- TA

- ROHS

- REACH

- CTA

- CCC

*Enhance version support EAT and TTS_CN function

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Application Note

SIM800 Series_TCPIP_Application Note_V1.02

2017-04-26

SIM800 Series_STK_Application Note_V1.02

2017-04-26

SIM800 Series_SSL_Application Note_V1.02

2017-04-26

SIM800 Series_Software Upgrade_Application Note_V1.04

2017-04-26

SIM800 Series_Serial Port_Application Note_V1.01

2017-04-26

SIM800 Series_PCM_Application Note_V1.01

2017-04-26

SIM800 Series_NTP_Application Note_V1.02

2017-04-26

SIM800 Series_Multiplexer_Application Note_V1.02

2017-04-26

SIM800 Series_MMS_Application Note_V1.01

2017-04-26

SIM800 Series_IP_Application Note_V1.03

2017-04-26

SIM800 Series_GSM Location_Application Note_V1.01

2017-04-26

SIM800 Series_GNSS_Application Note V1.00

2017-04-26

SIM800 Series_FS_Application Note_V1.03

2017-04-26

SIM800 Series_FM_Application Note_V1.02

2017-04-26

SIM800 Series_Email_Application Note_V1.01

2017-04-26

SIM800 Series_Bluetooth_Application Note_V1.07

2017-04-26

SIM800 Series Embedded AT_Compiling Environment_V1.01

2017-04-26

SIM800 Series Embedded AT_Application Note_1.02

2017-04-26

SIM800 Series Embedded AT Sleep Application Note_V1.01

2017-04-26

SIM800C+SIM28M_VTS_Reference1110

2017-04-26

AT Command

SIM800 Series_AT Command Manual_V1.10

2017-04-26

SIM800 Series_AT Command Manual_V1.10

2017-04-21

Certification

SIM800C_REACH_Test Report_2018

2018-03-26

SIM800C_ROHS_Test Report_2018

2018-03-26

SIM800C_OCD_Report

2017-07-17

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|---|------------|
| SIM800C_CE_DOC_2017 | 2017-06-08 |
| UDV-SIM800C_Final Grant | 2017-04-26 |
| Supplier declaration of conformity - 10 08 2015 | 2017-04-26 |
| SIM800C_GCF_Test Report_2015 | 2017-04-26 |
| SIM800C_CE(RED) Certificate_2017 | 2017-04-26 |
| SIM800C FCC Test Report | 2017-04-26 |
| SIM800C CE Test Report | 2017-04-26 |

Hardware Design

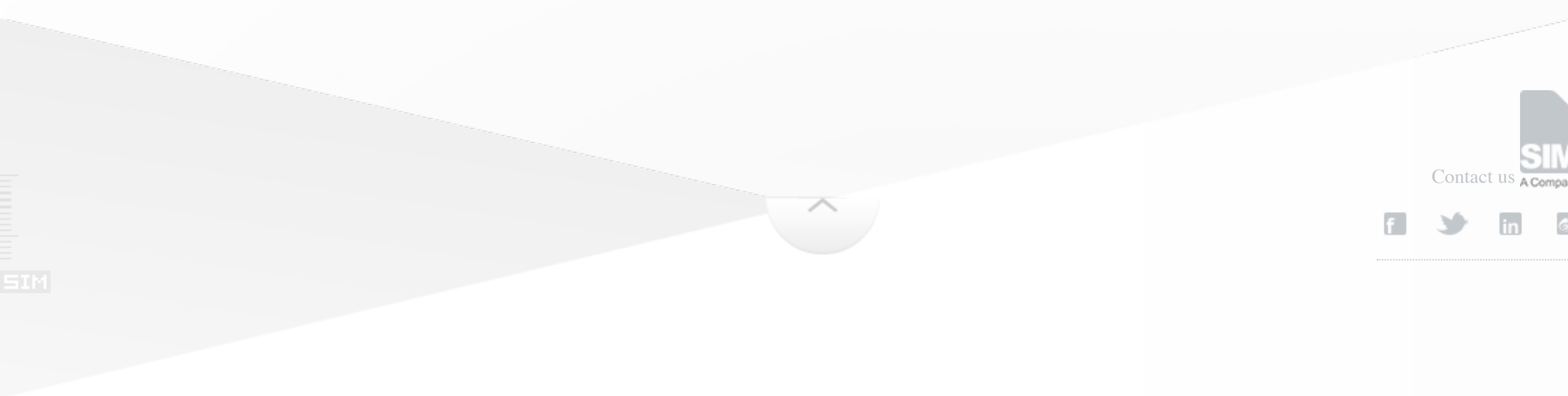
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| SIM800C_Hardware_Design_V1.05 | 2017-04-26 |
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Specification

| | |
|----------------------|------------|
| SIM800C SPEC EN_1504 | 2017-04-26 |
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User Guide

| | |
|----------------------------------|------------|
| SIM800C_EVB kit_User Guide_V1.01 | 2017-04-26 |
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Wireless Modules

- GSM/GPRS Module
- GSM/GPRS+GNSS Module
- WCDMA/HSPA/HSPA+ Module
- CDMA 1X/EV-DO Module
- LTE Module
- GPS Module
- GPS/GLONASS Module
- GPS/BEIDOU Module
- GNSS Module with Antenna
- NB-IoT Module
- eMTC&NB-IoT Module

Terminals & ODM

- Trackers
- DTU
- Routing/gateway device
- ODM Business

M2M Applications

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