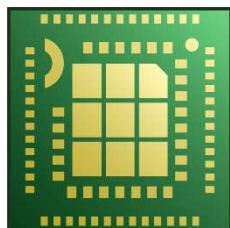
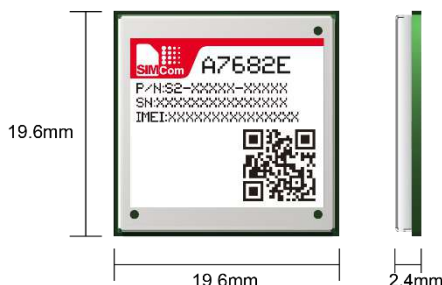


V: 2020.12

A7682E

SIMCom LTE Cat 1 Module



Product Description

A7682E is the LTE Cat 1 module that supports wireless communication modes of LTE-FDD/GSM/GPRS/EDGE. It supports maximum 10Mbps downlink rate and 5Mbps uplink rate.

A7682E adopts LCC+LGA form factor and is compatible with SIM800C, SIM868series (GSM/GPRS modules), which enables smooth migration from 2G products to LTE products, and greatly facilitates more compatible product design for the customer needs.

A7682E supports multiple built-in network protocols, supports drivers for main operation systems (USB driver for Windows, Linux and Android etc.) and software function. AT commands are compatible with the SIM800 series modules. Meanwhile A7682E integrates main industrial standard interfaces, with powerful expansibility, including abundant interfaces such as UART, USB, I2C, GPIO, which is suitable for main IOT applications such as telematics, surveillance devices, industrial routers, and remote diagnostics etc.



Key Benefits

- ◆ LCC+LGA form factor with abundant interfaces
- ◆ Suitable for LTE and GSM networks
- ◆ Abundant software functions: FOTA, LBS, SSL
- ◆ Compatible with the SIM800C, SIM868 series modules

General Features

Frequency Bands	LTE-FDD B1/B3/B5/B7/B8/B20
	GSM/GPRS/EDGE 900/1800 MHz
Supply Voltage	3.4V ~ 4.2V, Typ: 3.8V
Control Via AT Commands	
Operation temperature	-40°C ~ +85°C
Dimensions	19.6*19.6*2.5mm
Weight	1.9g±0.1

Data Transfer

LTE Cat 1	Uplink up to 5Mbps
	Downlink up to 10Mbps
EDGE	Uplink/Downlink up to 236.8Kbps
GPRS	Uplink/Downlink up to 85.6Kbps

Other Features

USB Driver for Microsoft Windows 7/8/10
USB Driver for Linux /Android
RIL supporting for Android 5.0/6.0/7.0/8.0/9.0
Firmware update via USB/FOTA
TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/HTTP/HTTPS/DNS
RNDIS/PPP/ECM
SMS
SSL

Interfaces

USB2.0
UART
(U)SIM card(1.8V/3V)
Analog audio
ADC
I2C
GPIO
Antenna: Primary

Certifications

CE#/RoHS#/REACH#

Note

*: optional
#: on going