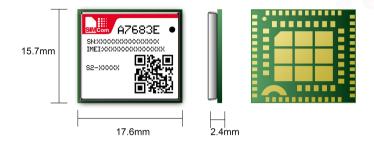


## V: 2023.08

# A7683E

## SIMCom LTE Cat 1bis Module





## **Product Description**

A7683E is the LTE Cat 1bis module that supports wireless communication modes of LTE-FDD. It supports maximum 10Mbps downlink rate and 5Mbps uplink rate.

A7683E adopts LGA form factor and is compatible with SIM800C, SIM868series (GSM/GPRS modules), SIM7080G(LPWA) and A7682E(CAT1), which enables smooth migration from 2G products to LTE products, and greatly facilitates more compatible product design for the customer needs.

A7683E 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 A7683E 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**

- LGA form factor with abundant interfaces
- Suitable for LTE networks
- Abundant software functions: FOTA, LBS, SSL
- ♦ Compatible with the SIM800C,SIM868,SIM7080G and A7682E series modules



#### **General Features**

Frequency Bands	LTE-FDD B1/B3/B5/B7/B8/B20/B28	
Supply Voltage	3.4V ~ 4.2V, Typ: 3.8V	
Control Via AT Commands		
Operation temperature	-40°C ~ +85°C	
Dimensions	15.7*17.6*2.4mm	
Weight	2.2g±0.1	

## **Other Features**

USB Driver for Micro	osoft Windo	ows 7/8/10	
USB Driver for Linux	x /Android		
RIL supporting for A	ndroid 5.0/	6.0/7.0/8.0/9.0	
Firmware update via	usb/Fot	A	
TCP/IP/IPV4/IPV6/N	//ulti-PDP/F	TP/FTPS/HTTP	HTTPS/DNS
RNDIS/PPP/ECM			<u> </u>
VoLTE/SMS			
SSL			

## **Data Transfer**

Uplink up to 5Mbps LTE Cat 1	
Downlink up to10Mbps	

## **Interfaces**

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

## **Certifications**

CE#/UKCA#/RoHS#/REACH#

#### Note

- \*: optional
- #: developing/on-going/planning