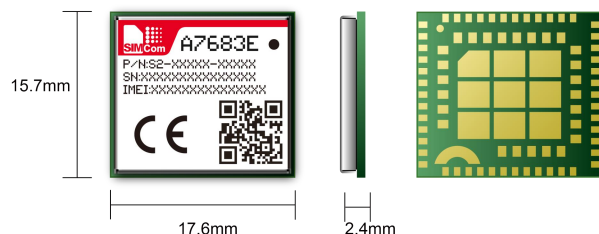


V: 2023.12

A7683E

SIMCom LTE Cat 1bis Module

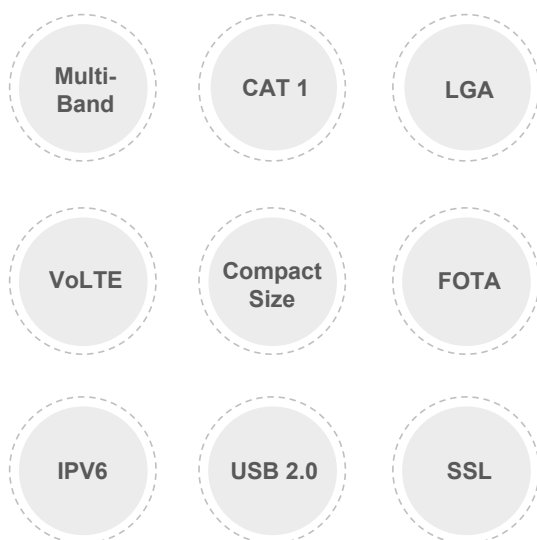


Product Description

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

- ◆ Ultra small LGA form factor module with abundant interfaces
- ◆ CAT 1bis module, suitable for LTE networks
- ◆ Abundant software functions: FOTA, SSL, LBS*
- ◆ 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	
Normal Operation Temperature	-30°C ~ +75°C
Extended Operation Temperature	-40°C ~ +85°C
Dimensions	15.7*17.6*2.4mm
Weight	2.2g±0.1

Data Transfer

LTE Cat 1	Uplink up to 5Mbps
	Downlink up to 10Mbps

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
VoLTE/SMS
SSL

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