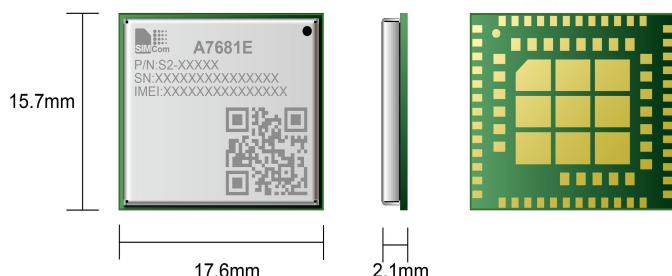


A7681E

SIMCom LTE Cat 1bis Module

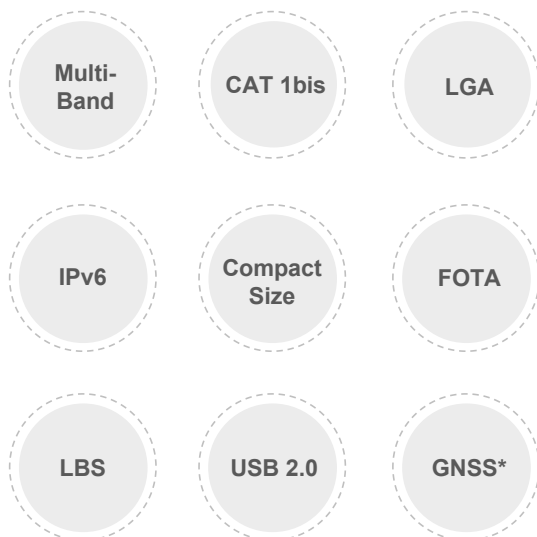


Product Description

A7681E is the LTE Cat 1bis module that supports wireless communication modes of LTE-FDD. It supports maximum 10Mbps downlink rate and 5Mbps uplink rate.

A7681E adopts LGA form factor and is compatible with A7682E, A7683E (CAT1 modules), SIM800C, SIM868 series (GSM/GPRS modules) and SIM7080G (LPWA), which enables smooth migration from 2G products to LTE products, and greatly facilitates more compatible product design for the customer needs.

A7681E 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, and some models also support multi-mode GNSS. In addition, A7681E 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 GNSS optional
- ◆ CAT 1bis module, suitable for LTE networks
- ◆ Abundant software functions: FOTA, LBS, MQTT
- ◆ Compatible with the SIM800C, SIM868, SIM7080G, A7682E and A7683E series modules

General Features

Frequency Bands	LTE-FDD B1/B3/B5/B7/B8/B20/B28
Supply Voltage	3.3V ~ 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*2.1mm
Weight	1.0±0.1g

Data Transfer

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

Other Features

USB Driver for Microsoft Windows 7/8/10/11
USB Driver for Linux /Android
RIL supporting for Android 7.0~13.0
Firmware update via USB/FOTA
TCP/UDP/FTP(S)/HTTP(S)/FTP(S)/MQTT(S)/HTP/NTP
RNDIS/ECM/PPP
LBS
WiFi Scan
Multi-GNSS receiver*: GPS/GLONASS/BDS/GALILEO

Interfaces

USB2.0
UART
(U)SIM card(1.8V/3V)
SPI
ADC
I2C
GPIO
Antenna: Primary/GNSS*

Certifications

CE#/RoHS#/REACH#

Note

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