A7681S

SIMCom LTE Cat 1 Module

SIMCom
a SUNSEA AIOT company

15.7mm

17.6mm   2.1mm

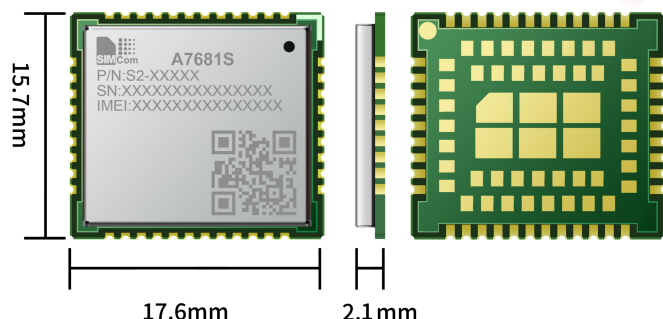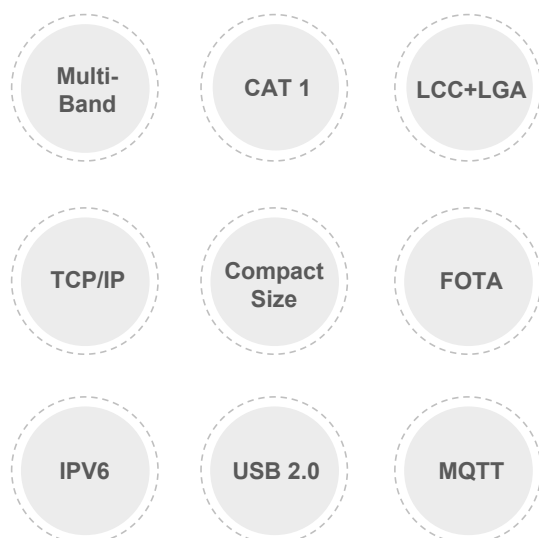| Multi-Band | CAT 1 | LCC+LGA |
| TCP/IP | Compact Size | FOTA |
| IPV6 | USB 2.0 | MQTT |

Product Description

A7681S is the LTE Cat 1 module which supports wireless communication modes of LTE-FDD/LTE-TDD. It supports maximum 10Mbps downlink rate and 5Mbps uplink rate.

A7681S adopts LCC+LGA form factor and is compatible with SIM800C and SIM868(2G modules), which enables smooth migration from 2G products to LTE Cat 1 products, and greatly facilitates more compatible product design for the customer needs.

A7681S supports multiple built-in network protocols and drivers for main operation systems (USB driver for Windows, Linux and Android). The software functions, AT commands are compatible with the A7681S series modules. Meanwhile A7681S integrates abundant industrial standard interfaces with powerful expansibility, such as UART, USB, I2C and GPIO, which makes it perfectly suitable for main IOT applications such as telematics, surveillance devices, industrial routers, and remote diagnostics etc.

Key Benefits

◆ Compact size with abundant interfaces

◆ Supports DualSIM HW interface but single standby

◆ Abundant software functions: FOTA, LBS, SSL

◆ Form factor is compatible with the SIM800C series

General Features

Frequency Bands	LTE-FDD B1/B3/B5/B8
	LTE-TDD B34/B38/B39/B40/B41
Supply Voltage	3.4V ~ 4.2V, Typ: 3.8V
Control Via AT Commands	
Operation temperature	-40℃ ~ +85℃
Dimensions	15.7*17.6*2.1mm
Weight	1.1g±0.1g

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/HTTP/DNS

RNDIS/PPP/ECM

MQTT/MQTTS

TLS1.2

LBS

WIFI Scan

Data Transfer

LTE Cat 1	Uplink up to 5Mbps
	Downlink up to10Mbps

Interfaces

USB2.0

UART

(U)SIM card(1.8V/3V)

SPI

ADC

I2C

GPIO

Antenna: Primary

Note

*: optional
#: on going