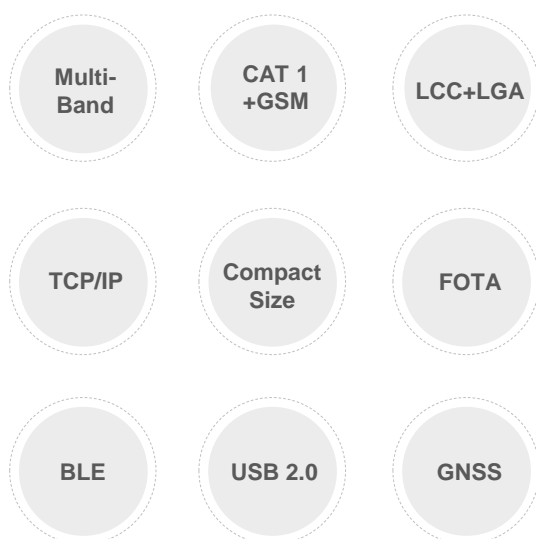
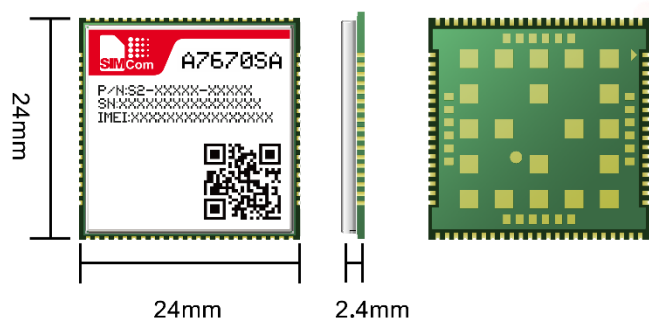


V: 2021.01

A7670SA

SIMCom LTE Cat 1 Module



Key Benefits

- ◆ Compact size with abundant interfaces
- ◆ Support BLE and GNSS functions*
- ◆ Abundant software functions: FOTA, LBS, SSL
- ◆ Form factor is compatible with the SIM7000/SIM7070 series

Product Description

A7670SA 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.

A7670SA adopts LCC+LGA form factor and is compatible with SIM7000/SIM7070 series (NB/Cat M modules), and SIM800A/SIM800F series (2G modules), which enables smooth migration from 2G/NB/Cat M products to LTE Cat 1 products and greatly facilitates more compatible product design for the customer needs.

A7670SA supports both multiple built-in network protocols and the drivers for three main operation systems (USB driver for Windows, Linux and Android). The software functions, AT commands are compatible with the SIM800 series modules. A7670SA also supports BLE* and GNSS* and it 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, POS, surveillance devices, industrial routers, and remote diagnostics etc.

General Features

Frequency Bands	LTE-FDD B1/B2/B3/B4/B5/B7/B8/B28/B66
	GSM/GPRS/EDGE 850/900/1800/1900MHz
Supply Voltage	3.4V ~ 4.2V, Typ: 3.8V
Control Via AT Commands	
Operation temperature	-40°C ~ +85°C
Dimensions	24*24*2.4mm
Weight	2.8±0.1g

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/HTTP/DNS
RNDIS/PPP/ECM
MQTT/MQTTS
TLS1.2
LBS
TTS

Interfaces

USB2.0
UART
(U)SIM card(1.8V/3V)
Analog audio
ADC
I2C
GPIO
4*4 Keypad*
Camera*
LCM*
Antenna: Primary/GNSS*/BT*

Certifications

Anatel#/RoHS#/REACH#

Note

*: optional
#: on going