A7672X

SIMCom LTE Cat 1 Module

24mm

24mm 2.4mm

- **Multi-Band**
- **CAT 1 +GSM**
- **LCC+LGA**
- **TCP/IP**
- **Compact Size**
- **FOTA**
- **BLE**
- **USB 2.0**
- **GNSS**

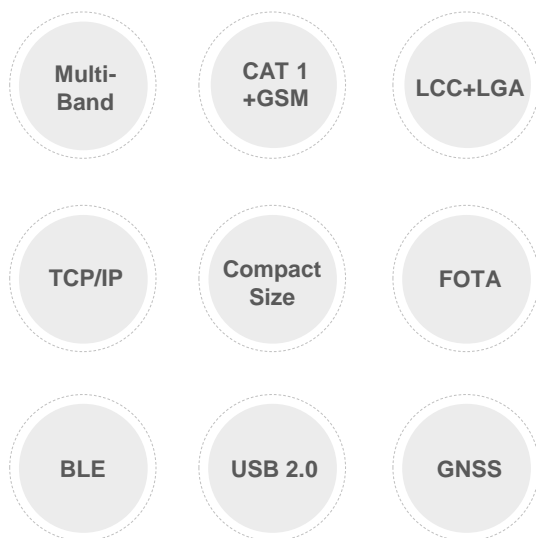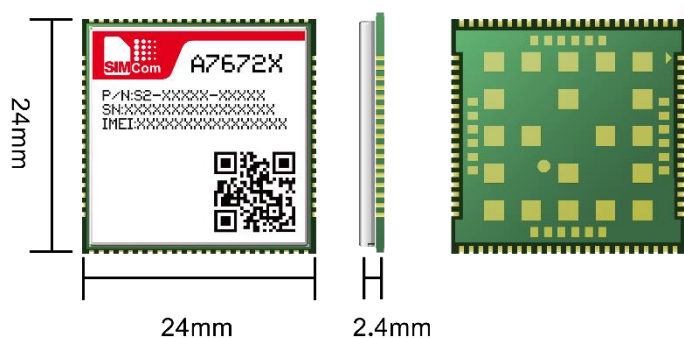## Product Description

A7672X is the LTE Cat 1 module that supports wireless communication modes of LTE/GSM/GPRS/EDGE. It supports maximum 10Mbps downlink rate and 5Mbps uplink rate.

A7672X 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.

A7672X supports both multiple built-in network protocols and the drivers for main operation systems (USB driver for Windows, Linux and Android). The software functions, AT commands are compatible with the SIM800 series modules. A7672X 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.

Key Benefits

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

Product	A7672S	A7672E	A7672SA
Form Factor	LCC+LGA	LCC+LGA	LCC+LGA
Dimensions(mm)	24.0*24.0*2.4	24.0*24.0*2.4	24.0*24.0*2.4
Frequency Bands — LTE-FDD	B1/B3/B5/B8	B1/B3/B5/B7/B8/B20	B1/B2/B3/B4/B5/B7/B8/B28/B66
Frequency Bands — LTE-TDD	B34/B38/B39/B40/B41		
Frequency Bands — GSM	900/1800MHz	900/1800MHz	850/900/1800/1900MHz
Temperature	-40℃ ~ +85℃	-40℃ ~ +85℃	-40℃ ~ +85℃

Electrical Features

Supply Voltage(V)	3.4~ 4.2	3.4~ 4.2	3.4~ 4.2
Power Consumption (mA) — LTE	TBD	TBD	TBD
Power Consumption (mA) — GSM,BS_PA_MFRMS=2	TBD	TBD	TBD

Data Transfer

LTE(Mbps)	10(DL)/5(UL)	10(DL)/5(UL)	10(DL)/5(UL)
GPRS/EDGE(Kbps)	236.8(DL)/236.8(UL)	236.8(DL)/236.8(UL)	236.8(DL)/236.8(UL)

Software Features

Protocol	TCP/IP/IPV4/IPV6/Multi-PDP/FTP/ FTPS /HTTP/HTTPS/DNS	TCP/IP/IPV4/IPV6/Multi-PDP/FTP/ FTPS /HTTP/HTTPS/DNS	TCP/IP/IPV4/IPV6/Multi-PDP/FTP/ FTPS /HTTP/HTTPS/DNS
TLS	●	●	●
MQTT	●	●	●
File System	●	●	●
Audio Record/Play	o	o	o
TTS	●	●	●
LBS	●	●	●
FOTA	●	●	●
Android RIL	Android 5.0/6.0/7.0/8.0/9.0	Android 5.0/6.0/7.0/8.0/9.0	Android 5.0/6.0/7.0/8.0/9.0
USB Driver	Microsoft Windows 7/8/10 Linux/Android	Microsoft Windows 7/8/10 Linux/Android	Microsoft Windows 7/8/10 Linux/Android
WWAN (RNDIS)	●	●	●
ECM	●	●	●
Embedded AT	o	o	o
Firmware Upgrade	USB/FOTA	USB/FOTA	USB/FOTA

Interfaces

SIM Card	1.8V/3.0V	1.8V/3.0V	1.8V/3.0V
UART	●	●	●
USB	●	●	●
PCM	o	o	o
ADC	●	●	●
GPIO	●	●	●
I2C	●	●	●
GNSS	o	o	o
BLE	o	o	o

Certification

Certification		CE-RED*/RoHS*/ REACH*	Anatel*/RoHS*/ REACH*

●: support   o: optional   * : on going