# 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
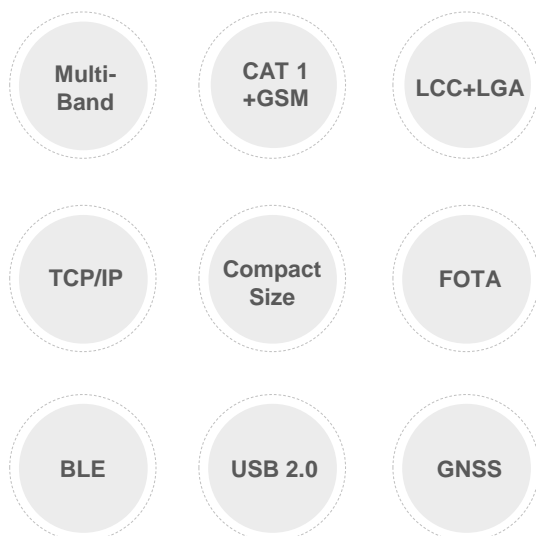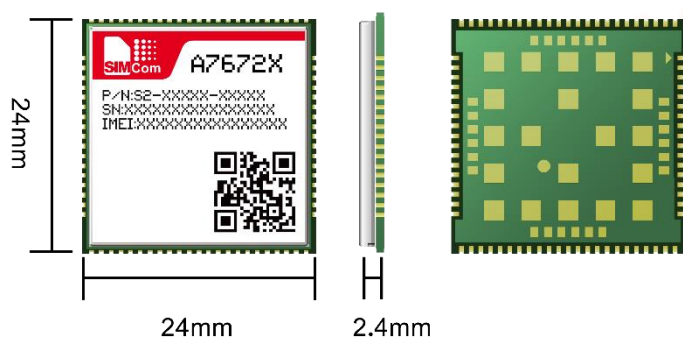
## Product Description

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 | | A7672S | A7672E | A7672SA |
|---|---|---|---|---|
| | LTE-FDD | B1/B3/B5/B8 | B1/B3/B5/B7/B8/B20 | B1/B2/B3/B4/B5/B7/B8/B28/B66 |
| | LTE-TDD | B34/B38/B39/B40/B41 | | |
| | GSM | 900/1800MHz | 900/1800MHz | 850/900/1800/1900MHz |
| Temperature | | -40℃ ~ +85℃ | -40℃ ~ +85℃ | -40℃ ~ +85℃ |

**Electrical Features**

| | | A7672S | A7672E | A7672SA |
|---|---|---|---|---|
| Supply Voltage(V) | | 3.4~ 4.2 | 3.4~ 4.2 | 3.4~ 4.2 |
| Power Consumption (mA) | LTE | TBD | TBD | TBD |
| | GSM,BS_PA_MFRMS=2 | TBD | TBD | TBD |

**Data Transfer**

| | A7672S | A7672E | A7672SA |
|---|---|---|---|
| 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**

| | A7672S | A7672E | A7672SA |
|---|---|---|---|
| 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**

| | A7672S | A7672E | A7672SA |
|---|---|---|---|
| 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**

| | A7672S | A7672E | A7672SA |
|---|---|---|---|
| Certification | | CE-RED*/RoHS*/ REACH* | Anatel*/RoHS*/ REACH* |

●: support　　o: optional　　* : on going

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