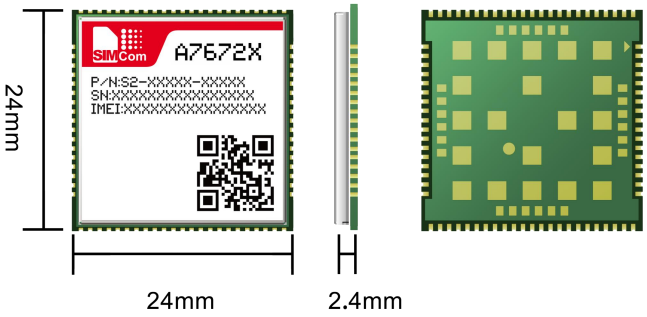
V: 2023.04

A7672 Series

SIMCom LTE Cat 1 Module



Multi-Bands

CAT 1 +GSM

LCC+LGA

Wifi-scan#

Compact Size

FOTA

BLE 5.0#

USB 2.0

GNSS#

Product Description

Based on ASR1603 platfom, A7672 series is the LTE Cat 1 module that supports wireless communication modes of LTE-FDD/LTE-TDD#/GSM#/GPRS#/EDGE#. It supports maximum 10Mbps downlink rate and 5Mbps uplink rate.

A7672 series 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.

A7672 series 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. A7672 series also can support 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, Wifi-scan and GNSS functions#
- Abundant software functions: FOTA, SSL
- Form factor is compatible with the SIM7000/SIM7070 series

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Product		A7672E	A7672SA	A7672S	A7672G
Form Factor		LCC+LGA	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	24.0*24.0*2.4
Frequency Bands	LTE-FDD	B1/B3/B5/B7/B8/B20/B28#	B1/B2/B3/B4/B5/B7/B8/B28/B66	B1/B3/B5/B8	B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28/B66
	LTE-TDD	NA	NA	B34/B38/B39/B40/B41	B38/B39/B40/B41
	GSM	GSM/GPRS/EDGE 900/1800 MHz	GSM/GPRS/EDGE 900/1800 MHz	GSM/GPRS/EDGE 900/1800 MHz	GSM/GPRS/EDGE 850/900/1800/1900 MHz
Temperature		-40℃ ~ +85℃	-40℃ ~ +85℃	-40℃ ~ +85℃	-40℃ ~ +85℃
Electrical Features					
Supply Voltage(V)		3.4~ 4.2	3.4~ 4.2	3.4~ 4.2	3.4~ 4.2
Power Consumption(mA)	LTE	1.5@LTE	1.5@LTE	1.5@LTE	1.5@LTE
Data Transfer					
LTE(Mbps)		10(DL)/5(UL)	10(DL)/5(UL)	10(DL)/5(UL)	10(DL)/5(UL)
EDGE(Kbps)		236.8(DL/UL)	236.8(DL/UL)	236.8(DL/UL)	236.8(DL/UL)
GPRS(Kbps)		85.6(DL/UL)	85.6(DL/UL)	85.6(DL/UL)	85.6(DL/UL)
Software Features					
Protocol		TCP/IP/IPV4/IPV6/ Multi-PDP/FTP/ FTPS /HTTP/HTTPS/DNS/MQTT	TCP/IP/IPV4/IPV6/ Multi-PDP/FTP/ FTPS /HTTP/HTTPS/DNS/MQTT	TCP/IP/IPV4/IPV6/ Multi-PDP/FTP/ FTPS /HTTP/HTTPS/DNS/MQTT	TCP/IP/IPV4/IPV6/ Multi-PDP/FTP/ FTPS /HTTP/HTTPS/DNS/MQTT
TLS		●	●	●	●
Jamming Detection		O	O	O	O
TTS		O	O	O	O
File System		●	●	●	●
WIFISCAN		O	O	●	●
BLE 5.0		O	O	O	NA
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	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	Microsoft Windows 7/8/10 Linux/Android
WWAN (RNDIS)		●	●	●	●
ECM		●	●	●	●
Embedded AT		O	O	O	O
Firmware Upgrade		USB/FOTA	USB/FOTA	USB/FOTA	USB/FOTA
Interfaces					
SIM Card		1.8V/3.0V	1.8V/3.0V	1.8V/3.0V	1.8V/3.0V
UART		●	●	●	●
USB		●	●	●	●
ADC		●	●	●	●
Analog audio		●	●	●	●
PCM		O	O	O	O
GPIO		●	●	●	●
I2C		●	●	●	●
GNSS		O	O	O	NA
LCD		●	●	●	●
Camera		●	●	●	●
Certification					
Certification		RoHS/REACH/CE-RED/ RCM/UKCA*/NCC/ GCF*/Deutsche Telekom/BT	RoHS/REACH/CE-RED/ RCM/NCC/FCC/Anatel		RoHS/REACH/CE-RED/FCC/Anatel*

●: support O/#: optional * : means under developing/on-going/planning

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