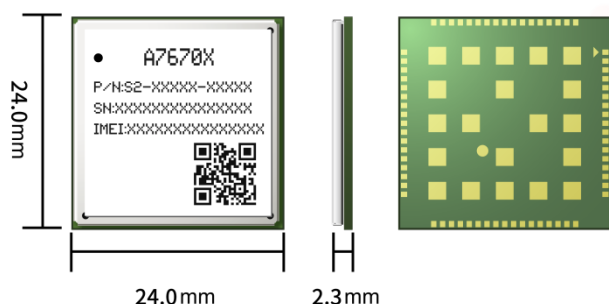


V: 2020.02

# A7670 Series

## SIMCom LTE Cat1 Module



### Product Description

The A7670 series is the LTE CAT1 module which support s wireless communication modes of LTE-TDD/LTE-FDD/ GSM/GPRS/EDGE. It supports maximum 10Mbps downlink rate and 5Mbps uplink rate

The A7670 series adopts LGA form factor and is compatible with NB/CATM modules SIM7000/SIM7070 Series , and 2G modules SIM800A/SIM800F, which enables smooth migration from 2G/NB/CATM products to LTE CAT1 products, and greatly facilitates more compatible product design for the customer needs.

The A7670 series supports multiple built-in network protocols, supports drivers for main operation systems (USB driver for Windows, Linux and Android etc.) and software function, AT command is compatible with SIM7500/SIM7600 series modules. Meanwhile the A7670 series integrates main industrial standard interfaces, with powerful expansibility, including abundant interfaces such as UART, USB, I2C, GPIO, which is suitable for main IOT applications such as telematics, surveillance devices, POS, industrial routers, and remote diagnostics etc.

### Key Benefits

- ◆ Small Size LTE Cat1 Module.
- ◆ LGA package with abundant interfaces.
- ◆ Suitable for LTE and GSM networks.
- ◆ Abundant software functions: FOTA, LBS, SSL.
- ◆ The package of A7670 series are compatible with SIM7000/SIM7070 Series.

Product		A7670C	A7670E	A7670SA
Package		LGA	LGA	LGA
Dimensions(mm)		24.0*24.0*2.3	24.0*24.0*2.3	24.0*24.0*2.3
Frequency Bands	LTE-FDD	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				
Supply Voltage		3.4V~ 4.2V	3.4V~ 4.2V	3.4V~ 4.2V
Power	LTE	3.8	3.8	3.8
Consumption (mA)	GSM,BS_PA_MFRMS=2	3.5	3.5	3.5
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		•	•	•
File System		•	•	•
Audio Record/Play		o	o	o
TTS		o	o	o
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		•	•	•
Certification				
Certification		CCC*/TA*/CTA*	CE-RED*/RoHS*/ REACH*	CE-RED*/RCM*/FCC*/Anatel*/RoHS*/ REACH*

•: support o: optional \* : on going

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