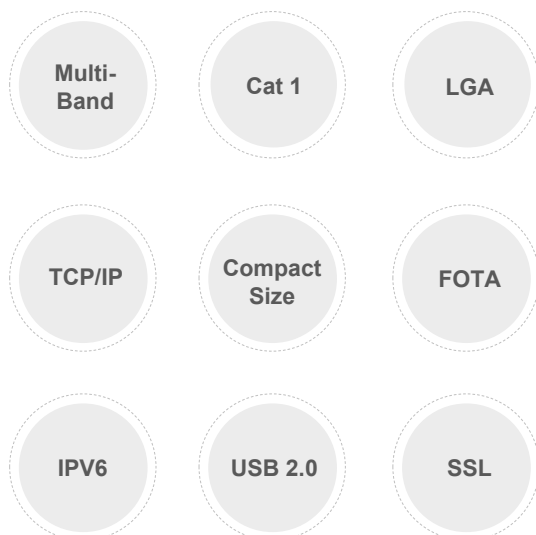
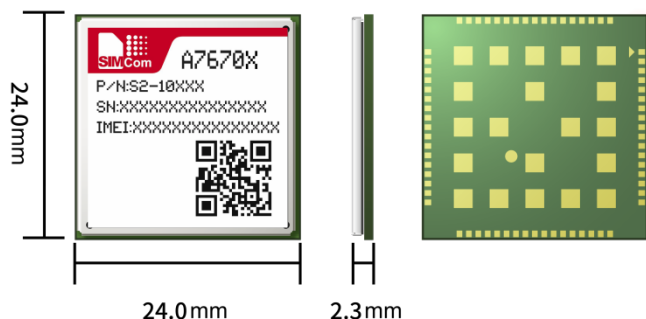


A7670 Series

SIMCom LTE Cat 1 Module



Product Description

The A7670 series is the LTE Cat 1 module which supports 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 SIM7000/SIM7070 series (NB/Cat M modules), and SIM800A/SIM800F (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.

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 commands are 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 Cat 1 module
- ◆ LGA form factor with abundant interfaces
- ◆ Suitable for LTE and GSM networks
- ◆ Abundant software functions: FOTA, LBS, SSL
- ◆ The form factor of A7670 series are compatible with the SIM7000/SIM7070 series

Product	A7670C	A7670E	A7670SA
Form Factor	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	B1/B3/B5/B8	B1/B2/B3/B4/B5/B7/B8/B28/B66
	LTE-TDD	B34/B38/B39/B40/B41	
	GSM	900/1800MHz	850/900/1800/1900MHz
Temperature	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C
Electrical Features			
Supply Voltage(V)	3.4~ 4.2	3.4~ 4.2	3.4~ 4.2
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	3C*/SRRC*/NAL*	CE-RED*/RoHS*/ REACH*	CE-RED*/RCM*/FCC*/Anatel*/RoHS*/ REACH*

•: support o: optional * : on going