A7602E-H-AT

SIMCom LTE Cat.4 Module

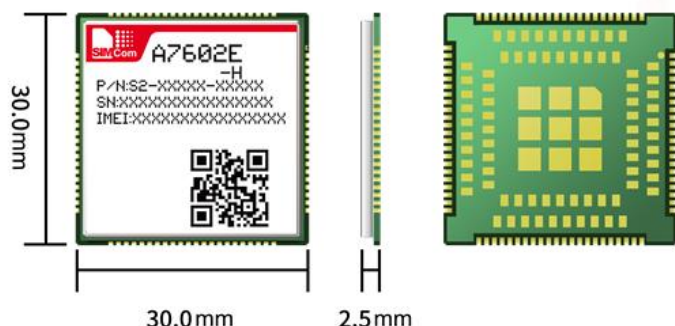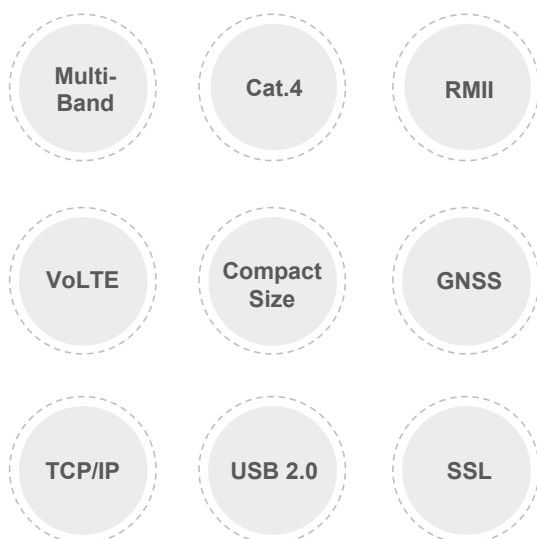| Multi-Band	Cat.4	RMII
VoLTE	Compact Size	GNSS
TCP/IP	USB 2.0	SSL

Product Description

A7602E-H-AT is the LTE Cat 4 module which supports wireless communication modes of LTE-TDD/LTE-FDD/HSPA+/GSM/GPRS/EDGE. It supports maximum 150Mbps downlink rate and 50Mbps uplink rate.

A7602E-H-AT adopts LCC+LGA form factor and is compatible with SIM5320/SIM5360 series(UMTS/HSPA+ modules), and SIM7600/SIM7600-H series(LTE modules), which enables smooth migration from 3G products to LTE products, and greatly facilitates more compatible product design for the customer needs.

A7602E-H-AT supports multiple built-in network protocols, supports drivers for main operation systems (USB driver for Windows, Linux and Android etc.) and software function. Meanwhile A7602E-H-AT 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 car applications, surveillance devices, CPE, industrial routers, and remote diagnostics etc.

Key Benefits

◆ LCC+LGA form factor with abundant interfaces
◆ Suitable for LTE, UMTS and GSM networks
◆ Abundant software functions: FOTA, LBS, SSL

Product	A7602E-H-AT		
Form Factor		LGA+LCC, 172 PIN	
Dimensions(mm)		30*30*2.5mm	
Frequency Bands	LTE-FDD	B1/B3/B5/B7/B8/B20/B28*	
	LTE-TDD	B38/B40/B41	
	WCDMA	B1/B5/B8	
	GSM	900/1800 MHz	
RAM		1Gb	
ROM		2Gb	
GNSS		GPS/GLONASS/Beidou	
Working Temperature		-40℃ ~ +85℃	

Electrical Features

Supply Voltage(V)		3.4V ~ 4.2V	
Power Consumption (mA)	LTE-FDD	TBD	
	LTE TDD	TBD	
	WCDMA, DRX=9	TBD	
	GSM,BS_PA_MFRMS=2	TBD	

Data Transfer

LTE(Mbps)	150 (DL)/50(UL)
HSPA+(Mbps)	21(DL)/5.76(UL)
WCDMA(Kbps)	384(DL)/384(UL)
GPRS/EDGE(Kbps)	236.8(DL)/236.8(UL)

Software Features

Protocol	TCP/ UDP/ PPP/ PING/ FTP(S)/ HTTP(S)/ SMTP/ SSL/ TLS/ MMS/ NTP/etc
SSL /TLS	●
File System	●
DTMF	●
VoLTE	●
CS Call	●
eCall	●
SMS MO/MT	●
LBS	●
Security	Trust Zone/ Secure Boot/ SE-Linux
Android RIL	Android 5.0/6.0/7.0/8.0/9.0/10.0/11.0/12.0
USB Driver	Windows 7/8/10, Linux, Android
WWAN (RNDIS)/ECM	●
Open Linux	●
Firmware Upgrade	USB/FOTA
FOTA	●
Auto Log	●
Wi-Fi/BT	with extended WIFI/BT module

Interfaces

SIM Card	1*1.8V/3.0V
UART	3*UART
USB	1* USB 2.0 OTG
PCM	*1
I2S	*1(Multiplexing with PCM)
ADC	*1
SDIO	*1
SD	*1
SPI	*1
I2C	*1
RMII	*1
MIC+/-	●
SPK +/-	●
GPIO	●
Diversity Receiver	●

Certification

Regulatory	CE/RCM/UKCA/RoHS/REACH

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