A7608SA-H

SIMCom LTE Cat 4 Module

30.0mm

30.0 mm   2.5 mm

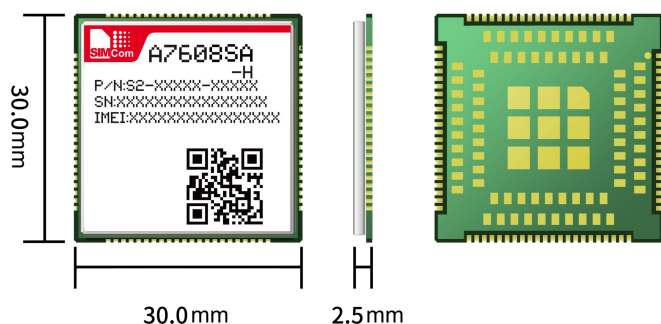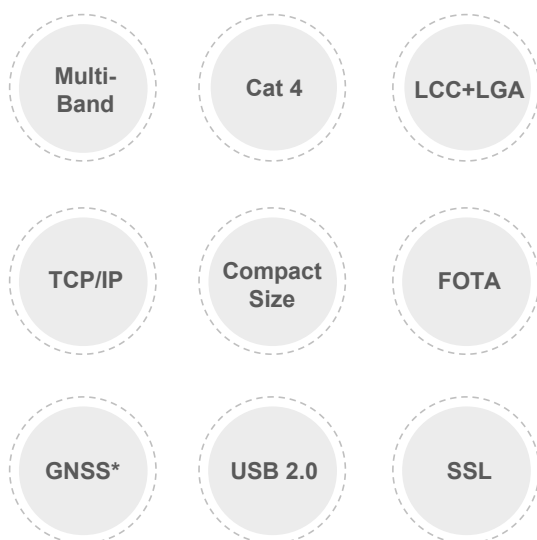| Multi-Band | Cat 4 | LCC+LGA |
| TCP/IP | Compact Size | FOTA |
| GNSS* | USB 2.0 | SSL |

Product Description

A7608SA-H 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.

A7608SA-H 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.

A7608SA-H 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 SIM7600 series modules. Meanwhile A7608SA-H 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, 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

◆ The AT commands of A7608SA-H are compatible with SIM7600 series modules

General Features

Frequency Bands	LTE-TDD B38/B40/B41
	LTE-FDD B1/B2/B3/B4/B5/B7/B8/B20/B28/B66
	UMTS/HSPA+ B1/B2/B5/B8
	GSM/GPRS/EDGE 850/900/1800/1900 MHz
Supply Voltage	3.4V ~ 4.2V, Typ: 3.8V
Control Via AT Commands	
Operation temperature	-40℃ ~ +85℃
Dimensions	30.0*30.0*2.5mm
Weight	4.6±0.1g

Data Transfer

LTE Cat 4	Uplink up to 50Mbps
	Downlink up to 150Mbps
HSPA+	Uplink up to 5.76Mbps
	Downlink up to 21.6Mbps
UMTS	Uplink/Downlink up to 384Kbps
EDGE	Uplink/Downlink up to 236.8Kbps
GPRS	Uplink/Downlink up to 85.6Kbps

Other Features

USB Driver for Microsoft Windows 7/8/10
USB Driver for Linux /Android
RIL supporting for Android 5.0/6.0/7.0/8.0/9.0/10.0/11.0/12.0
Firmware update via USB/FOTA
TCP/IP/IPV4/IPV6/MultiPDP/FTP/FTPS/HTTP/HTTPS/DNS
RNDIS/PPP/ECM
SMS
SSL

Interfaces

USB2.0
UART
(U)SIM card(1.8V/3V)
PCM
Analog audio
RMII*
PCIE*（Host Mode）
MMC/SD
SDIO*
ADC
I2C
GPIO
Antenna: Primary/Diversity/GNSS*

Certifications

FCC/NCC/Anatel#/RoHS#/REACH#

Note
*: optional
#: under developing/on-going/planning