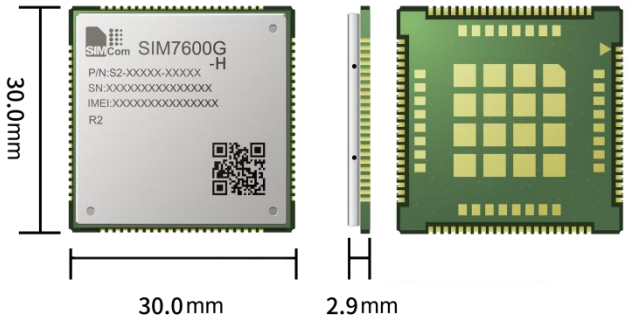
V: 2020.02

SIM7600G-H R2

SIMCom LTE Cat 4 Module



Multi-Band

Cat 4

LCC+LGA

VoLTE

Compact Size

FOTA

TCP/IP

USB 2.0

SSL

Product Description

The SIM7600G-H R2 is the LTE Cat 4 module which supports wireless communication modes of LTE-TDD/ LTE-FDD/HSPA+/GSM/GPRS/EDGE etc. It supports maximum 150Mbps downlink rate and 50Mbps uplink rate.

The SIM7600G-H R2 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.

The SIM7600G-H R2 integrates multiple satellite high accuracy positioning GNSS systems, with 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 SIM7600G-H R2 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 with global coverage
- Abundant software functions: FOTA, TLS, VoLTE
- Multi-constellation GNSS receiver*
- AT commands of the SIM7600G-H R2 are compatible with the SIM7500/SIM7600 series modules

Copyright © 2020 SIMCom Wireless Solutions Limited All Rights Reserved
Building B, SIM Technology Building, No.633, Jinzhong Road Changning District, Shanghai P.R.China
Tel: 86-21-31575100 Email: support@simcom.com Web: www.simcom.com

General Features

Frequency Bands	LTE-TDD B34/B38/B39/B40/B41
	LTE-FDD B1/B2/B3/B4/B5/B7/B8/B12/B13/ B18/B19/B20/B25/B26/B28/B66
	UMTS/HSPA+ B1/B2/B4/B5/B6/B8/B19
	GSM/GPRS/EDGE 850/900/1800/1900MHz
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	5.7±0.1g

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
Firmware update via USB/FOTA
TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/HTTP/ HTTPS/DNS
RNDIS/NDIS/ECM
MBIM to Win8
SSL3.0/TLS1.0/TLS1.2
DTMF*/Audio Playing*
USB Audio* and VoLTE*
FOTA

Data Transfer

LTE Cat 4	Uplink up to 50Mbps
	Downlink up to150Mbps
HSPA+	Uplink up to 5.76Mbps
	Downlink up to 42 Mbps
UMTS	Uplink/Downlink up to 384Kbps
EDGE	Uplink/Downlink up to 236.8Kbps
GPRS	Uplink/Downlink up to 85.6Kbps

Interfaces

USB2.0
UART
(U)SIM card(1.8V/3V)
PCM*
SGMII*
MMC/SD
SDIO
ADC
I2C
GPIO
Antenna: Support Primary/Rx-diversity/GNSS*

Certifications

CE#/RCM#/FCC#/IC#
PTCRB#/GCF#
AT&T#/Verizon#
RoHS#/REACH#

Note

*: optional
#: on going

Copyright © 2020 SIMCom Wireless Solutions Limited All Rights Reserved
Building B, SIM Technology Building, No.633, Jinzhong Road Changning District, Shanghai P.R.China
Tel: 86-21-31575100 Email: support@simcom.com Web: www.simcom.com