SIM7600-H-M2 Series
SIMCom LTE Cat 4 Module

Multi-Band

Cat 4

M.2

GNSS

Compact Size

FOTA

TCP/IP

USB 2.0

SSL

42.0mm

31.4mm

3.8mm
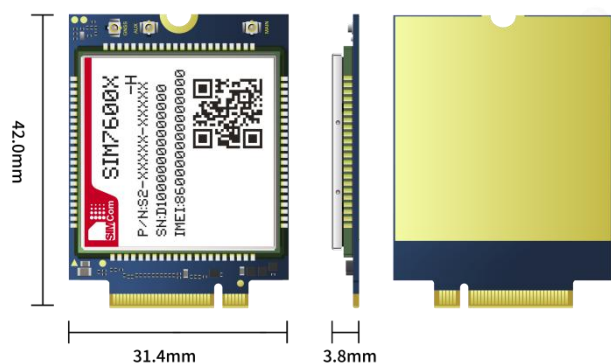
Product Description

The SIM7600-H-M2 series 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 SIM7600-H-M2 series adopts M.2 form factor and consists of a SIM7600-H series module and a M.2 adapter board. It is easy for customers to integrate.

The SIM7600-H-M2 series 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 SIM7600-H-M2 series integrates main industrial standard interfaces, with powerful expansibility, including abundant interfaces such as UART, USB, GPIO, which is suitable for main IoT applications such as telematics, surveillance devices, CPE, industrial routers, and remote diagnostics etc.

Key Benefits

◆ M.2 interface with strong compatibility

◆ Suitable for LTE, UMTS and GSM networks with global coverage

◆ Abundant software functions: FOTA, LBS, TLS

◆ Multi-constellation GNSS receiver support

◆ AT commands of the SIM7600-H-M2 series are compatible with the SIM7500/SIM7600 series modules

Product		SIM7600A-H-M2	SIM7600V-H-M2	SIM7600SA-H-M2	SIM7600E-H-M2
Form Factor		M.2	M.2	M.2	M.2
Dimensions(mm)		42.0*31.4*3.8	42.0*31.4*3.8	42.0*31.4*3.8	42.0*31.4*3.8
Frequency Bands	LTE-FDD	B2/B4/B12	B2/B4/B5/B13	B1/B2/B3/B4/B5/B7/B8/B28/B66	B1/B3/B5/B7/B8/B20
	LTE-TDD			B40	B38/B40/B41
	WCDMA	B2/B5		B1/B2/B5/B8	B1/B5/B8
	GSM			850/900/1800/1900MHz	900/1800MHz
GNSS		o	o	o	o
Temperature		-40℃ ~ +85℃	-40℃ ~ +85℃	-40℃ ~ +85℃	-40℃ ~ +85℃

Electrical Features

Supply Voltage(V)		3.0~ 4.2	3.0~ 4.2	3.0~ 4.2	3.0~ 4.2
Power Consumption (mA)	LTE	2.3	2.3	2.3	2.3
	WCDMA, DRX=9	3.3		3.3	3.3
	GSM,BS_PA_MFRMS=2	2.8		2.8	2.8

Data Transfer

LTE(Mbps)	150(DL)/50(UL)	150(DL)/50(UL)	150(DL)/50(UL)	150(DL)/50(UL)
HSPA+(Mbps)	42(DL)/5.76(UL)		42(DL)/5.76(UL)	42(DL)/5.76(UL)
WCDMA(Kbps)	384(DL)/384(UL)		384(DL)/384(UL)	384(DL)/384(UL)
GPRS/EDGE(Kbps)			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	TCP/IP/IPV4/IPV6/ Multi-PDP/FTP/FTPS/HTTP/ HTTPS/DNS
TLS	●	●	●	●
File System	●	●	●	●
Audio Record/Play	o	o	o	o
TTS	o	o	o	o
DTMF	o	o	o	o
LBS	●	●	●	●
FOTA	●	●	●	●
Jamming Detection	●	●	●	●
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	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	Microsoft Windows 7/8/10 Linux/Android
WWAN (RNDIS)	●	●	●	●
ECM	●	●	●	●
MBIM	Win8/Win10	Win8/Win10	Win8/Win10	Win8/Win10
NDIS	Linux/Windows 7/8/10	Linux/Windows 7/8/10	Linux/Windows 7/8/10	Linux/Windows 7/8/10
Firmware Upgrade	USB/FOTA	USB/FOTA	USB/FOTA	USB/FOTA

Interfaces

SIM Card	1.8V/3.0V	1.8V/3.0V	1.8V/3.0V	1.8V/3.0V
UART	●	●	●	●
USB	●	●	●	●
PCM	o	o	o	o
LED	●	●	●	●
WoWWAN	●	●	●	●
W_DISABLE	●	●	●	●
I2C	●	●	●	●
Diversity Receiver	●	●	●	●

Certification

Regulatory	FCC/PTCRB/IC/RoHS/REACH	FCC/GCF/RoHS/REACH	CE-RED/ACMA/FCC/NCC/ Anatel/RoHS/REACH	CE-RED/IMDA/GCF/ RoHS/REACH
Carrier	AT&T	Verizon		DTAG/Vodafone

●: support   o: optional   * : on going

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Product	SIM7600NA-H-M2		SIM7600G-H-M2
Form Factor		M.2	M.2
Dimensions(mm)		42.0*31.4*3.8	42.0*31.4*3.8
Frequency Bands	LTE-FDD	B2/B4/B5/B12/B13/B14/B25/B26/B66/B71	B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28/B66
	LTE-TDD	B41	B34/B38/B39/B40/B41
	WCDMA		B1/B2/B4/B5/B6/B8/B19
	GSM		850/900/1800/1900MHz
GNSS		o	o
Temperature		-40℃ ~ +85℃	-40℃ ~ +85℃

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GPRS/EDGE(Kbps)		236.8(DL)/236.8(UL)

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Protocol	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
TTS	o	o
DTMF	o	o
LBS	●	●
FOTA	●	●
Jamming Detection	●	●
Android RIL	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
WWAN (RNDIS)	●	●
ECM	●	●
MBIM	Win8/Win10	Win8/Win10
NDIS	Linux/Windows 7/8/10	Linux/Windows 7/8/10
Firmware Upgrade	USB/FOTA	USB/FOTA

Interfaces		
SIM Card	1.8V/3.0V	1.8V/3.0V
UART	●	●
USB	●	●
PCM	o	o
LED	●	●
WoWWAN	●	●
W_DISABLE	●	●
I2C	●	●
Diversity Receiver	●	●

Certification		
Regulatory	FCC/IC/PTCRB/GCF/RoHS/REACH	CE-RED/FCC/IC/RCM/CCC*/Telec*/Jate*/Anatel*/ NCC*/RoHS/REACH
Carrier	AT&T*/Verizon*/T-mobile*	AT&T*/Verizon*/T-mobile*

●: support   o: optional   * : on going