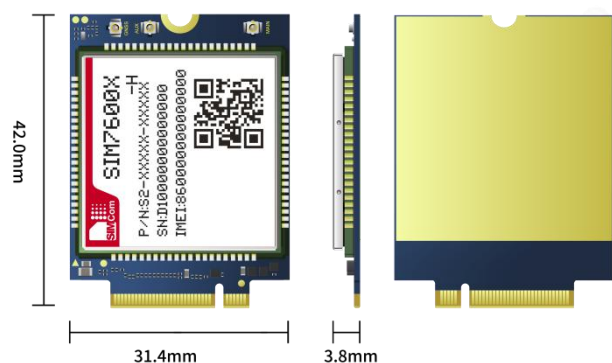


# SIM7600-H-M2 Series

## SIMCom LTE Cat 4 Module



### 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
<b>Form Factor</b>	M.2	M.2	M.2	M.2
<b>Dimensions(mm)</b>	42.0*31.4*3.8	42.0*31.4*3.8	42.0*31.4*3.8	42.0*31.4*3.8
<b>Frequency Bands</b>	LTE-FDD	B2/B4/B12	B2/B4/B5/B13	B1/B2/B3/B4/B5/B7/B8/B20/B28/B66
	LTE-TDD			B40
	WCDMA	B2/B5		B38/B40/B41
	GSM			B1/B5/B8
<b>GNSS</b>	0	0	850/900/1800/1900MHz	900/1800MHz
<b>Temperature</b>	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C
<b>Electrical Features</b>				
<b>Supply Voltage(V)</b>	3.3~ 4.2	3.3~ 4.2	3.3~ 4.2	3.3~ 4.2
<b>Power Consumption (mA)</b>	LTE	2.3	2.3	2.3
	WCDMA, DRX=9	3.3		3.3
	GSM,BS_PA_MFRMS=2	2.8		2.8
<b>Data Transfer</b>				
<b>LTE(Mbps)</b>	150(DL)/50(UL)	150(DL)/50(UL)	150(DL)/50(UL)	150(DL)/50(UL)
<b>HSPA+(Mbps)</b>	42(DL)/5.76(UL)		42(DL)/5.76(UL)	42(DL)/5.76(UL)
<b>WCDMA(Kbps)</b>	384(DL)/384(UL)		384(DL)/384(UL)	384(DL)/384(UL)
<b>GPRS/EDGE(Kbps)</b>			236.8(DL)/236.8(UL)	236.8(DL)/236.8(UL)
<b>Software Features</b>				
<b>Protocol</b>	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
<b>TLS</b>	•	•	•	•
<b>File System</b>	•	•	•	•
<b>Audio Record/Play</b>	0	0	0	0
<b>TTS</b>	0	0	0	0
<b>DTMF</b>	0	0	0	0
<b>LBS</b>	•	•	•	•
<b>FOTA</b>	•	•	•	•
<b>Jamming Detection</b>	•	•	•	•
<b>Android RIL</b>	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
<b>USB Driver</b>	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
<b>WWAN (RNDIS)</b>	•	•	•	•
<b>ECM</b>	•	•	•	•
<b>MBIM</b>	Win8/Win10	Win8/Win10	Win8/Win10	Win8/Win10
<b>NDIS</b>	Linux/Windows 7/8/10	Linux/Windows 7/8/10	Linux/Windows 7/8/10	Linux/Windows 7/8/10
<b>Firmware Upgrade</b>	USB/FOTA	USB/FOTA	USB/FOTA	USB/FOTA
<b>Interfaces</b>				
<b>SIM Card</b>	1.8V/3.0V	1.8V/3.0V	1.8V/3.0V	1.8V/3.0V
<b>UART</b>	•	•	•	•
<b>USB</b>	•	•	•	•
<b>PCM</b>	0	0	0	0
<b>LED</b>	•	•	•	•
<b>WoWWAN</b>	•	•	•	•
<b>W_DISABLE</b>	•	•	•	•
<b>I2C</b>	•	•	•	•
<b>Diversity Receiver</b>	•	•	•	•
<b>Certification</b>				
<b>Regulatory</b>	FCC/PTCRB/IC/RoHS/REACH	FCC/GCF/RoHS/REACH	CE-RED/ACMA/FCC/NCC/ Anatel/RoHS/REACH	CE-RED/IIMDA/GCF/ RoHS/REACH
<b>Carrier</b>	AT&T	Verizon		DTAG/Vodafone

•: support 0: optional \*: on going

Product	SIM7600NA-H-M2	SIM7600JC-H-M2	SIM7600G-H-M2
<b>Form Factor</b>	M.2	M.2	M.2
<b>Dimensions(mm)</b>	42.0*31.4*3.8	42.0*31.4*3.8	42.0*31.4*3.8
<b>Frequency Bands</b>	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
<b>GNSS</b>	0	0	0
<b>Temperature</b>	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C
<b>Electrical Features</b>			
<b>Supply Voltage(V)</b>	3.3~ 4.2	3.3~ 4.2	3.3~ 4.2
<b>Power Consumption (mA)</b>	LTE	2.3	2.3
	WCDMA,DRX=9		3.3
	GSM, BS_PA_MFRMS=2		2.8
<b>Data Transfer</b>			
<b>LTE(Mbps)</b>	150(DL)/50(UL)	150(DL)/50(UL)	150(DL)/50(UL)
<b>HSPA+(Mbps)</b>			42(DL)/5.76(UL)
<b>WCDMA(Kbps)</b>			384(DL)/384(UL)
<b>GPRS/EDGE(Kbps)</b>			236.8(DL)/236.8(UL)
<b>Software Features</b>			
<b>Protocol</b>	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
<b>TLS</b>	•	•	•
<b>File System</b>	•	•	•
<b>Audio Record/Play</b>	0	0	0
<b>TTS</b>	0	0	0
<b>DTMF</b>	0	0	0
<b>LBS</b>	•	•	•
<b>FOTA</b>	•	•	•
<b>Jamming Detection</b>	•	•	•
<b>Android RIL</b>	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
<b>USB Driver</b>	Microsoft Windows 7/8/10 Linux/Android	Microsoft Windows 7/8/10 Linux/Android	Microsoft Windows 7/8/10 Linux/Android
<b>WWAN (RNDIS)</b>	•	•	•
<b>ECM</b>	•	•	•
<b>MBIM</b>	Win8/Win10	Win8/Win10	Win8/Win10
<b>NDIS</b>	Linux/Windows 7/8/10	Linux/Windows 7/8/10	Linux/Windows 7/8/10
<b>Firmware Upgrade</b>	USB/FOTA	USB/FOTA	USB/FOTA
<b>Interfaces</b>			
<b>SIM Card</b>	1.8V/3.0V	1.8V/3.0V	1.8V/3.0V
<b>UART</b>	•	•	•
<b>USB</b>	•	•	•
<b>PCM</b>	0	0	0
<b>LED</b>	•	•	•
<b>WoWWAN</b>	•	•	•
<b>W_DISABLE</b>	•	•	•
<b>I2C</b>	•	•	•
<b>Diversity Receiver</b>	•	•	•
<b>Certification</b>			
<b>Regulatory</b>	FCC/IC/PTCRB/GCF/RoHS/REACH	Telec/JATE/RoHS/REACH	CE-RED/FCC/IC/RCM/PTCRB/GCF/Telec/Jate/CCC/SRRC/NCC/Anatel/KC/IMDA/ICASA/RoHS/REACH
<b>Carrier</b>	AT&T/Verizon/T-mobile/US Cellular	Docomo/Softbank	AT&T/Verizon*/T-mobile/US Cellular/Telstra*/DTAG

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