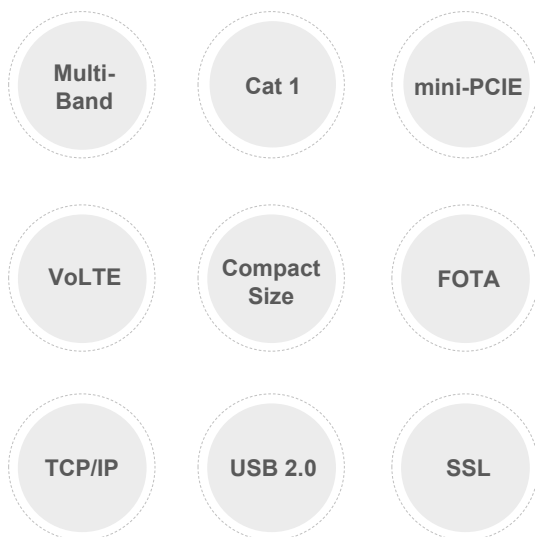
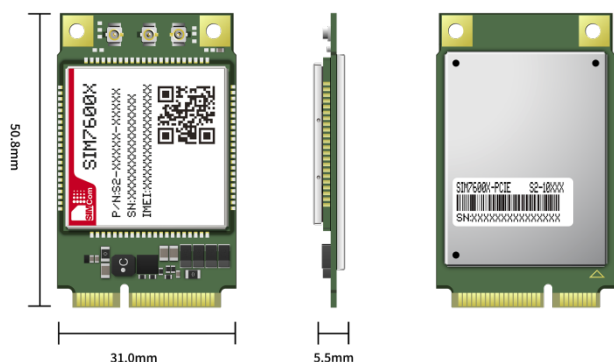


# SIM7600-PCIE Series

## SIMCom LTE Cat 1 Module



## Product Description

The SIM7600-PCIE series is the LTE Cat 1 module which supports wireless communication modes of LTE-TDD/LTE-FDD/HSPA+/GSM/GPRS/EDGE etc. It supports maximum 10Mbps downlink rate and 5Mbps uplink rate.

The SIM7600-PCIE series adopts mini PCIE form factor and consists of a SIM7600 series module and a mini PCIE adapter board. It is easy for customers to integrate.

The SIM7600-PCIE 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-H series modules. Meanwhile the SIM7600-PCIE 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

- ◆ Mini-PCIE interface with strong compatibility
- ◆ Suitable for LTE, UMTS and GSM networks with global coverage
- ◆ Abundant software functions: FOTA, LBS, TLS, VoLTE
- ◆ Multi-constellation GNSS receiver support
- ◆ AT commands of the SIM7600-PCIE series are compatible with the SIM7500/SIM7600-H series modules

Product	SIM7600A-PCIE	SIM7600SA-PCIE	SIM7600E-PCIE	SIM7600E-L1C-PCIE
<b>Form Factor</b>	Mini PCIE	Mini PCIE	Mini PCIE	Mini PCIE
<b>Dimensions(mm)</b>	50.8*31*5.35	50.8*31*5.35	50.8*31*5.35	50.8*31*5.35
<b>Frequency Bands</b>	LTE-FDD	B2/B4/B12	B1/B2/B3/B4/B5/B7/B8/B28/B66	B1/B3/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
<b>GNSS</b>	o	o	o	o
<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>	3.0~ 3.3	3.0~ 3.3	3.0~ 3.3	3.0~ 3.3
<b>Power Consumption (mA)</b>	LTE	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
<b>Data Transfer</b>				
<b>LTE(Mbps)</b>	10(DL)/5(UL)	10(DL)/5(UL)	10(DL)/5(UL)	10(DL)/5(UL)
<b>HSPA+(Mbps)</b>	42(DL)/5.76(UL)	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)	384(DL)/384(UL)
<b>GPRS/EDGE(Kbps)</b>		236.8(DL)/236.8(UL)	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>	o	o	o	o
<b>TTS</b>	o	o	o	o
<b>DTMF</b>	o	o	o	o
<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
<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>	o	o	o	o
<b>Analog Audio</b>	o	o	o	o
<b>Embedded SIM card socket</b>	o	o	o	o
<b>I2C</b>	•	•	•	•
<b>Diversity Receiver</b>	•	•	•	•
<b>Certification</b>				
<b>Regulatory</b>	FCC/PTCRB/IC/RoHS/ REACH	CE-RED/ACMA/FCC/ RoHS/REACH/Anatel	CE-RED/RoHS/REACH/ IMDA/GCF	CE-RED/RoHS/REACH
<b>Carrier</b>	AT&T/Rogers	Telstra	Deutsche Telekom /Vodafone	

• : support o : optional \* : on going

Product	SIM7600G-PCIE	SIM7600NA-PCIE
<b>Form Factor</b>	Mini PCIE	Mini PCIE
<b>Dimensions(mm)</b>	50.8*31*5.35	50.8*31*5.35
<b>Frequency Bands</b>	LTE-FDD	B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28/B66
	LTE-TDD	B34/B38/B39/B40/B41
	WCDMA	B1/B2/B4/B5/B6/B8/B19
	GSM	850/900/1800/1900MHz
<b>GNSS</b>	o	o
<b>Temperature</b>	-40°C ~ +85°C	-40°C ~ +85°C
<b>Electrical Features</b>		
<b>Supply Voltage(V)</b>	3.0~ 3.3	3.0~ 3.3
<b>Power Consumption (mA)</b>	LTE	2.3
	WCDMA, DRX=9	3.3
	GSM,BS_PA_MFRMS=2	2.8
<b>Data Transfer</b>		
<b>LTE(Mbps)</b>	10(DL)/5(UL)	10(DL)/5(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
<b>TLS</b>	•	•
<b>File System</b>	•	•
<b>Audio Record/Play</b>	o	o
<b>TTS</b>	o	o
<b>DTMF</b>	o	o
<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
<b>USB Driver</b>	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
<b>NDIS</b>	Linux/Windows 7/8/10	Linux/Windows 7/8/10
<b>Firmware Upgrade</b>	USB/FOTA	USB/FOTA
<b>Interfaces</b>		
<b>SIM Card</b>	1.8V/3.0V	1.8V/3.0V
<b>UART</b>	•	•
<b>USB</b>	•	•
<b>PCM</b>	o	o
<b>Analog Audio</b>	o	o
<b>Embedded SIM card socket</b>	o	o
<b>I2C</b>	•	•
<b>Diversity Receiver</b>	•	•
<b>Certification</b>		
<b>Regulatory</b>	CE-RED/RCM*/FCC/IC/PTCRB*/GCF*/RoHS*/REACH*	FCC*/IC*/PTCRB*/GCF*/RoHS*/REACH*
<b>Carrier</b>	AT&T*/Verizon*	AT&T*/Verizon*/Sprint*/T-mobile*

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