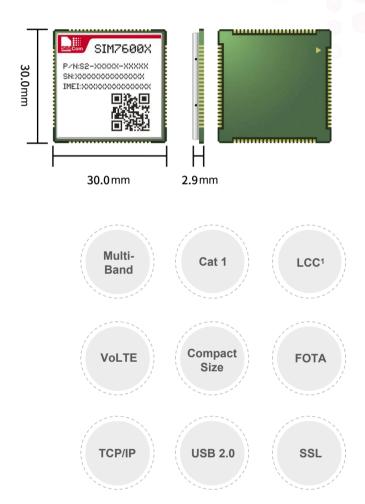


SIM7600 Series

SIMCom LTE Cat 1 Module



Product Description

The SIM7600 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 series adopts LCC¹ 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 SIM7600 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 series 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

- ◆ LCC¹ form factor with abundant interfaces
- 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 series are compatible with the SIM7500/SIM7600-H series modules

NOTE

1: The form factor of SIM7600NA & SIM7600G is LCC+LGA



Product		SIM7600A	SIM7600SA	SIM7600E	SIM7600E-L1C
Form Factor		LCC, 87PIN	LCC, 87PIN	LCC, 87PIN	LCC, 87PIN
Dimensions(m	m)	30.0*30.0*2.9	30.0*30.0*2.9	30.0*30.0*2.9	30.0*30.0*2.9
	LTE-FDD	B2/B4/B12	B1/B2/B3/B4/B5/B7/B8/B28/B66	B1/B3/B5/B7/B8/B20	B1/B3/B7/B8/B20
Frequency	LTE-TDD		B40	B38/B40/B41	
Bands	WCDMA	B2/B5	B1/B2/B5/B8	B1/B5/B8	B1/B8
	GSM		850/900/180 <mark>0/1</mark> 900MHz	900/1800MHz	900/1800MHz
GNSS		0	0	0	0
Temperature		-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C
Electrical Feat	ures				
Supply Voltage	e(V)	3.4~ 4.2	3.4~ 4.2	3.4~ 4.2	3.4~ 4.2
D	LTE	2.3	2.3	2.3	2.3
Power Consumption	WCDMA,	3.3	3.3	3.3	3.3
(mA)	DRX=9 GSM, BS_PA_				
(IIIA)	MFRMS=2	2.8	2.8	2.8	2.8
Data Transfer					
LTE(Mbps)		10(DL)/5(UL)	10(DL)/5(UL)	10(DL)/5(UL)	10(DL)/5(UL)
HSPA+(Mbps)		42(DL)/5.76(UL)	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)	384(DL)/384(UL)
GPRS/EDGE(Kbps)			236.8(DL)/236.8(UL)	236.8(DL)/236.8(UL)	236.8(DL)/236.8(UL)
Software Featu	ıres				
		TCP/IP/IPV4/IPV6/	TCP/IP/IPV4/IPV6/Multi-PDP/	TCP/IP/IPV4/IPV6/	TCP/IP/IPV4/IPV6/
Protocol		Multi-PDP/FTP/FTPS/HTTP/	FTP/FTPS/HTTP/HTTPS/DNS	Multi-PDP/FTP/FTPS/	Multi-PDP/FTP/FTPS/
TLS		HTTPS/DNS	•	HTTP/HTTPS/DNS	HTTP/ HTTPS/DNS
		•	•	•	•
File System			0	0	
Audio Record/Play TTS		0	0	0	0
DTMF		0	0	0	0
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 RiL		Microsoft Windows 7/8/10	Microsoft Windows 7/8/10	Microsoft Windows 7/8/10	Microsoft Windows 7/8/10
USB Driver		Linux/Android	Linux/Android	Linux/Android	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
Interfaces					
SIM Card		1.8V/3.0V	1.8V/3.0V	1.8V/3.0V	1.8V/3.0V
UART		•	•	•	•
USB		•	•	•	•
PCM		0	0	0	0
ADC		•	•	•	•
SD Card		•	•	•	•
SPI		0	0	0	0
12C		•	•	•	•
Diversity Receiver		•	•	•	•
Certification					
Regulatory		FCC/PTCRB/RoHS/REACH/IO	CE-RED/ACMA/FCC/	CE-RED/RoHS/REACH/	CE-RED/RoHS/REACH
			RohS/REACH/Anatel	IMDA/GCF	OL REDITORIONEAUT
Carrier		AT&T/Rogers	Telstra	DTAG/Vodafone	

•: support o: optional *: on going



Product		SIM7600G R2	SIM7600NA	
Form Factor		LCC+LGA, 119PIN	LCC+LGA, 119PIN	
Dimensions(mm)		30.0*30.0*2.9	30.0*30.0*2.9	
	LTE-FDD	B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/ B28/B66	B2/B4/B5/B12/B13/B14/B25/B26/B66/B71	
Frequency	LTE-TDD	B34/B38/B39/B40/B41	B41	
Bands	WCDMA	B1/B2/B4/B5/B6/B8/B19		
	GSM	850/900/1800/1900MHz		
GNSS		0	0	
Temperature		-40°C ~ +85°C	-40°C ~ +85°C	
Electrical Fea				
Supply Voltage(V)		3.4~ 4.2	3.4~ 4.2	
Power	LTE	2.3	2.3	
Consumption	WCDMA, DRX=9	3.3		
(mA)	GSM,BS_PA MFRMS=2	2.8		
Data Transfer				
LTE(Mbps)		10(DL)/5(UL)	10(DL)/5(UL)	
HSPA+(Mbps)		42(DL)/5.76(UL)	10(02)	
WCDMA(Kbps)		384(DL)/384(UL)		
GPRS/EDGE(Kbps)		236.8(DL)/236.8(UL)		
Software Feat				
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		0	0	
TTS		0	0	
DTMF		0	0	
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		0	0	
ADC		•	•	
SD Card		•	•	
SPI		0	0	
I2C		•	•	
SGMII		0	0	
Diversity Receiver		•	•	
Certification				
Regulatory		CE-RED/FCC/IC/RCM/Telec/Jate/NCC/IMDA/ICASA/ CCC/SRRC/Anatel*/PTCRB/GCF/RoHS/REACH	FCC/IC/PTCRB/GCF/RoHS/REACH	
Carrier		AT&T/Verizon*/T-mobile/US Celluar/DTAG	AT&T/Verizon/T-mobile/US Celluar	

•: support o: optional *: on going