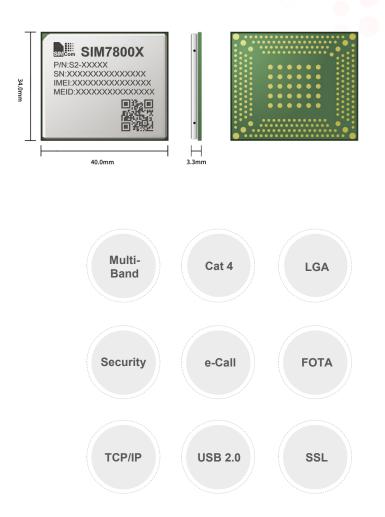


² SIM7800 Series

SIMCom LTE Cat 4 Module for Automotive



Product Description

The SIM7800 series is the Multi-Band LTE-TDD/LTE-FDD/ HSPA+/TD-SCDMA/EVDO and Dual-Band GSM/GPRS/ EDGE automotive grade LTE Cat 4 module which supports maximum 150Mbps downlink rate and 50Mbps uplink rate.

The SIM7800 series adopts LGA form factor which makes it ideal for integration in automotive devices.

The SIM7800 series is designed and manufactured according to IATF 16949: 2016 quality management system, it targets at the IoV (Internet of Vehicles) market. It has strong extension capability with abundant interfaces including SGMII, UART, SDIO, I2C, SPI, GPIO etc.

The SIM7800 series provides much flexibility and ease of integration for customer's applications, and its excellent performance in ESD and EMI protection ensures great robustness in harsh environments.

Key Benefits

- LGA form factor with abundant interfaces
- Compliant with automotive quality management system IATF 16949: 2016
- Excellent EMC protection ensures great robustness even in harsh environments
- Compact LGA form factor ideal for integration in automotive devices
- Multi-constellation GNSS receiver
- With abundant interfaces and application capability, provides much flexibility and ease of integration for customer's applications

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Product		SIM7800CE	SIM7800E
Form Factor		LGA, 282 PIN	LGA, 282 PIN
Dimensions(mm)		34.0*40.0*3.1	34.0*40.0*3.1
	LTE-FDD	B1/B3/B5/B8	B1/B3/B5/B7/B8/B20
	LTE-TDD	B38/B39/B40/B41	B38/B40/B41
	WCDMA	B1/B8	B1/B5/B8
Frequency Bands	TD-SCDMA	B34/B39	
		DO0	
	EVDO/CDMA	BCO	
GNSS	GSM	900/1800 MHz	900/1800 MHz
Femperature		-40℃~+85℃	-40℃ ~ +85℃
Electrical Feat	ures		400000
Supply Voltag		3.3~ 4.2	3.3~ 4.2
Power	LTE-FDD	1.8	1.8
	WCDMA, DRX=9	3.3	3.3
mA)	GSM,BS_PA_MFRMS=2	1.8	1.8
Data Transfer			
TE(Mbps)		150 (DL)/50(UL)	150 (DL)/50(UL)
ISPA+(Mbps)		42(DL)/5.76(UL)	42(DL)/5.76(UL)
NCDMA(Kbps		384(DL)/384(UL)	384(DL)/384(UL)
GPRS/EDGE(M		236.8(DL)/236.8(UL)	236.8(DL)/236.8(UL)
Software Feat			
Protocol		TCP/IP/IPV4/IPV6/MultiPDP/FTP/FTPS/HTTP/	TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/HTTP/
		HTTPS/DNS/NTP/PING/SSL	HTTPS/DNS/NTP/PING/SSL
eCall		•	•
TLS		•	•
File System		•	•
Audio Record/Play		•	•
TTS		•	•
DTMF		•	•
LBS		•	•
FOTA		•	•
Jamming Dete	ction	SELinux/Trustzone/Secure boot	
Security Android RIL			SELinux/Trustzone/Secure boot
		Android 5.0/6.0/7.0/8.0/9.0	Android 5.0/6.0/7.0/8.0/9.0 Microsoft Windows 7/8/10/Linux/Android
USB Driver WWAN (RNDIS)/ECM		Microsoft Windows 7/8/10/Linux/Android	
MBIM		• Win8/Win10	Win8/Win10
NDIS		Linux/Windows 7/8/10	Linux/Windows 7/8/10
Open Linux		•	•
Firmware Upgrade		USB/FOTA	USB/FOTA
Wi-Fi/BT		2.4G/5G/BLE4.2(with W59)	2.4G/5G/BLE4.2(with W59)
Interfaces			, , , , , , , , , , , , , , , , , , ,
SIM Card		1.8V/3.0V	1.8V/3.0V
UART		3*UART	3*UART
USB		•	•
HSIC		•	•
2S		•	•
ADC		•	•
SDIO		SDIO3.0(200MHz Max)	SDIO3.0(200MHz Max)
SD Card		SD3.0(128G Max)	SD3.0(128G Max)
SPI		•	•
I2C		•	•
SGMII		10M/100M/1000M Ethernet	10M/100M/1000M Ethernet
Diversity Receiver		•	•
Certification	- 		

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•: support o: optional *: on going

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