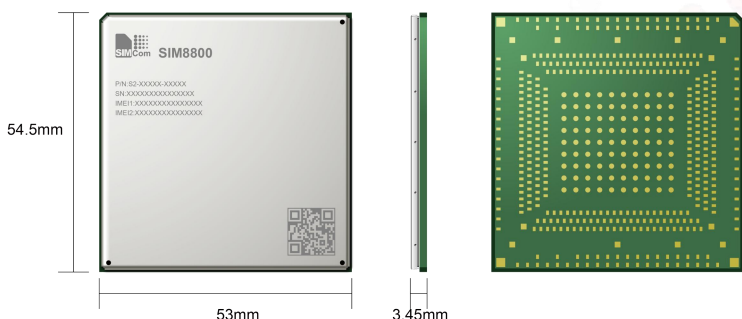


# SIM8800 Series

## SIMCom 5G Sub-6G + C-V2X Module for Automotive



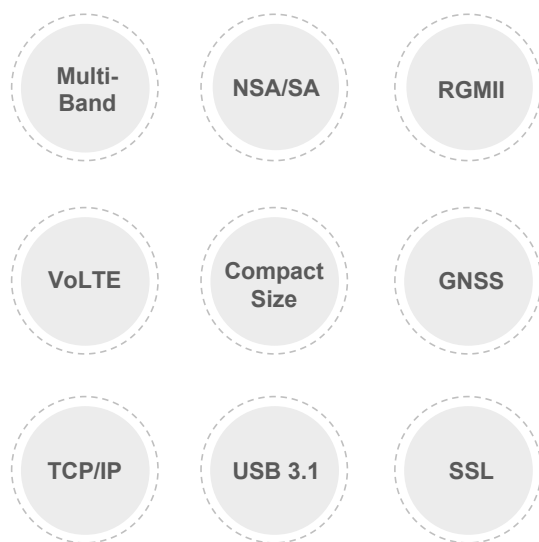
### Product Description

The SIM8800 Series module is Automotive Grade Multi-Band 5G NR and C-V2X module which supports R15 5G NSA/SA up to 4Gbps data transfer.

It has strong extension capability with abundant interfaces including PCIe, USB3.1, GPIO etc. The module provides much flexibility and ease of integration for customer's applications.

SIM8800 Series module adopts LGA form factor and the AT commands are compatible with SIM8200 series modules. This also minimizes the investments of customers and enables a short time-to-market.

It is designed for automotive applications with IATF 16949 requirement and provide the unique combination of performance, security and flexibility for automotive applications.



### 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
- ◆ 5G + C-V2X radio
- ◆ Multi-constellation GNSS receiver
- ◆ With abundant interfaces and application capability, provides much flexibility and ease of integration for customer's applications

Product	SIM8800CE	SIM8800E
<b>Form Factor</b>	LGA, 524 PIN	LGA, 524 PIN
<b>Dimensions(mm)</b>	54.5*53.0*3.45	54.5*53.0*3.45
<b>Frequency Bands</b>	5G NR	n1/n3/n8/n28/n41/n78/n79
	LTE-FDD	B1/B3/B5/B7/B8
	LTE-TDD	B34/B38/B39/B40/B41
	WCDMA	B1/B8
	GSM	900/1800MHz
<b>GNSS</b>	•	•
<b>Working Temperature</b>	-40°C ~ +85°C	-40°C ~ +85°C
<b>Electrical Features</b>		
<b>Supply Voltage(V)</b>	3.3V ~ 4.3V	3.3V ~ 4.3V
<b>Power Consumption (mA)</b>	5G NR	TBD
	LTE-FDD	TBD
	LTE TDD	TBD
	WCDMA, DRX=9	TBD
	GSM,BS_PA_MFRMS=2	TBD
<b>Data Transfer</b>		
<b>5G NR(Mbps)</b>	2400(DL)/550(UL)	2400(DL)/550(UL)
<b>LTE(Mbps)</b>	1000 (DL)/200(UL)	1000 (DL)/200(UL)
<b>HSPA+(Mbps)</b>	42(DL)/5.76(UL)	42(DL)/5.76(UL)
<b>WCDMA(Kbps)</b>	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/ UDP/ PPP/ PING/ FTP(S)/ HTTP(S)/ SMTP/ SSL/ TLS/ MMS/ NTP/ FILE/ QMI	TCP/ UDP/ PPP/ PING/ FTP(S)/ HTTP(S)/ SMTP/ SSL/ TLS/ MMS/ NTP/ FILE/ QMI
<b>eCall</b>	•	•
<b>TLS</b>	•	•
<b>File System</b>	•	•
<b>Audio Record/Play</b>	•	•
<b>TTS</b>	•	•
<b>DTMF</b>	•	•
<b>LBS</b>	•	•
<b>FOTA</b>	•	•
<b>Jamming Detection</b>	•	•
<b>Security</b>	Trust Zone/ Secure Boot/ SE-Linux	Trust Zone/ Secure Boot/ SE-Linux
<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>	Windows 7/8/8.1/10, Linux 2.6~5.0, Android 4.x/5.x/6.x/7.x/8.x/9.x	Windows 7/8/8.1/10, Linux 2.6~5.0, Android 4.x/5.x/6.x/7.x/8.x/9.x
<b>WWAN (RNDIS)/ECM</b>	•	•
<b>MBIM</b>	Win8/Win10	Win8/Win10
<b>NDIS</b>	Linux/Windows 7/8/10	Linux/Windows 7/8/10
<b>Open Linux</b>	•	•
<b>Firmware Upgrade</b>	USB/FOTA	USB/FOTA
<b>Wi-Fi/BT</b>	2.4G/5G/BLE5.2	2.4G/5G/BLE5.2
<b>Interfaces</b>		
<b>SIM Card</b>	1.8V/3.0V	1.8V/3.0V
<b>UART</b>	3*UART	3*UART
<b>USB</b>	1* USB 3.1/2.0	1* USB 3.1/2.0
<b>PCIe</b>	•	•
<b>PCM</b>	•	•
<b>I2S</b>	•	•
<b>ADC</b>	*2	*2
<b>SDIO</b>	SDIO3.0(200MHz Max)	SDIO3.0(200MHz Max)
<b>SPI</b>	•	•
<b>I2C</b>	•	•
<b>RGMII</b>	•	•
<b>Diversity Receiver</b>	•	•
<b>Certification</b>		
<b>Regulatory</b>	3C/SRRC/NAL*/RoHS*/REACH*	CE-RED*/RoHS*/REACH*