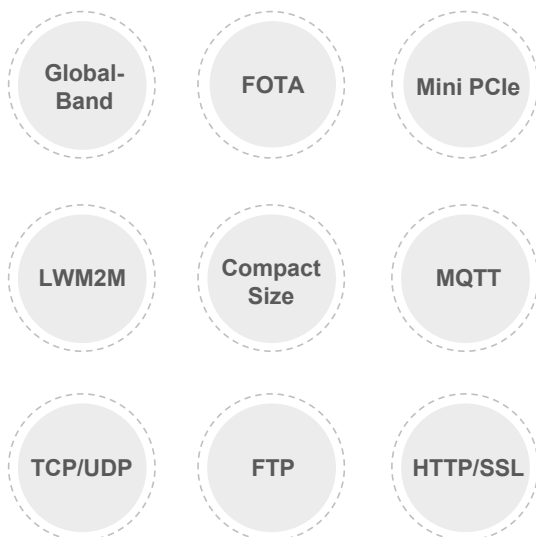
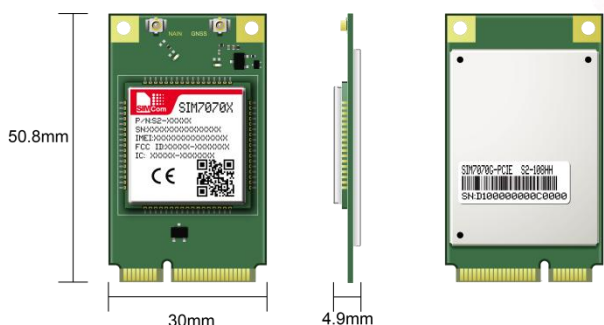


# SIM7070-PCIE Series

## SIMCom LPWA Module



### Product Description

The SIM7070-PCIE series is the LPWA module which supports wireless communication modes of Cat-M/ Cat-NB/GPRS(optional)/EDGE(optional).

The SIM7070-PCIE series adopts Mini PCIe form factor. It is easy for customers to integrate.

The SIM7070-PCIE series has powerful expansibility with abundant interfaces including UART, USB etc. The SIM7070 series is designed for applications that need low power consumption, low throughput data communication in a variety of radio propagation conditions. Due to the unique combination of performance, security and flexibility, this module is ideally suited for M2M applications, such as metering, asset tracking, remote monitoring, E-health etc.

### Key Benefits

- ◆ The SIM7070-PCIE series provides deeper coverage enhancement compared to GSM
- ◆ The form factor and AT commands of the SIM7070-PCIE series are compatible with SIM7000/SIM900/SIM800F

Product	SIM7070G-PCIE	SIM7070E-PCIE	SIM7070G-MN-PCIE	SIM7070G-M-PCIE
<b>Form Factor</b>	Mini PCIe	Mini PCIe	Mini PCIe	Mini PCIe
<b>Dimensions(mm)</b>	50.8*30*4.9	50.8*30*4.9	50.8*30*4.9	50.8*30*4.9
<b>Frequency Bands</b>	<b>Cat-M</b>	B1/B2/B3/B4/B5/B8/B12/B13/B14/B18/B19/B20/B25/B26/B27/B28/B66/B85	B1/B2/B3/B4/B5/B8/B12/B13/B14/B18/B19/B20/B25/B26/B27/B28/B31/B66/B72/B73/B85/B87/B88	B1/B2/B3/B4/B5/B8/B12/B13/B14/B18/B19/B20/B25/B26/B27/B28/B66/B85
	<b>Cat-NB</b>	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B28/B66/B71/B85	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B28/B31/B66/B73/B85/B87/B88	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B28/B66/B71/B85
	<b>GSM</b>	850/900/1800/1900MHz	850/900/1800/1900MHz	
<b>LTE RF Power Class</b>	Class 5 (Typ. 21dbm)	Class 5 (Typ. 21dbm) Class 2@B31/B72/B87/B88	Class 5 (Typ. 21dbm)	Class 5 (Typ. 21dbm)
<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 Range(V)</b>	3.3~ 4.3, Typ 3.8	3.3~ 4.3, Typ 3.8	3.3~ 4.3, Typ 3.8	3.3~ 4.3, Typ 3.8
<b>Power Consumption (mA)</b>	<b>@Sleep</b>	2	2	2
	<b>@Idle</b>	15	15	15
<b>Data Transfer</b>				
<b>Cat-M(Kbps)</b>	589(DL)/1119(UL)	589(DL)/1119(UL)	589(DL)/1119(UL)	589(DL)/1119(UL)
<b>Cat-NB(Kbps)</b>	127(DL)/158.5(UL)	127(DL)/158.5(UL)	127(DL)/158.5(UL)	
<b>EGPRS(Kbps)</b>	296(DL)/236.8(UL)	296(DL)/236.8(UL)		
<b>Software Features</b>				
<b>Protocol</b>	TCP/UDP/HTTP/HTTPS/FTP/TLS/DTLS/PING/LWM2M/COAP/MQTT	TCP/UDP/HTTP/HTTPS/FTP/TLS/DTLS/PING/LWM2M/COAP/MQTT	TCP/UDP/HTTP/HTTPS/FTP/TLS/DTLS/PING/LWM2M/COAP/MQTT	TCP/UDP/HTTP/HTTPS/FTP/TLS/DTLS/PING/LWM2M/COAP/MQTT
<b>FOTA</b>	●	●	●	●
<b>Firmware Upgrade</b>	USB/FOTA	USB/FOTA	USB/FOTA	USB/FOTA
<b>Interfaces</b>				
<b>SIM Card</b>	1.8V	1.8V	1.8V	1.8V
<b>UART</b>	●	●	●	●
<b>USB</b>	●	●	●	●
<b>Certification</b>				
<b>Regulatory</b>	RoHS/REACH/CCC/NAL/SR RC/NCC/JATE/Telec/KC*/RCM/CE(RED)/GCF/UKCA/FC C/PTCRB/IC	RoHS/REACH/CE/FCC*/GCF	RoHS/REACH/CCC/NAL/SR RC/NCC/JATE/Telec/KC*/RCM/CE(RED)/GCF/UKCA/FC C/PTCRB/IC	RoHS/REACH/CCC/NAL/SR RC/NCC/JATE/Telec/KC*/RCM/CE(RED)/GCF/UKCA/FC C/PTCRB/IC
<b>Carrier</b>	Telstra*/Orange*/TIM*/Deutsche Telekom/Telefonica*/Vodafone*/AT&T/Verizon/T mobile/US Cellular/OCD(Anatel)	Anatel	Telstra*/Orange*/TIM*/Deutsche Telekom/Telefonica*/Vodafone*/AT&T/Verizon/T mobile/US Cellular/OCD(Anatel)	Telstra*/Orange*/TIM*/Deutsche Telekom/Telefonica*/Vodafone*/AT&T/Verizon/T mobile/US Cellular/OCD(Anatel)

● : support    o : optional    \* : on going