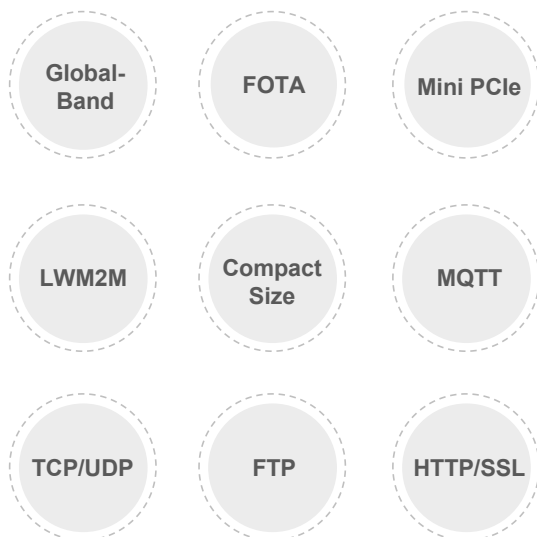
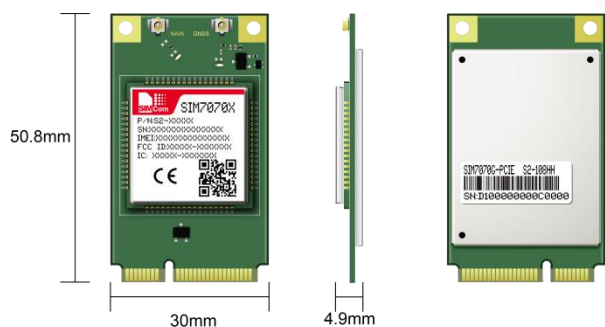


# SIM7070-PCIE Series

## 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 latency, 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
<b>Form Factor</b>		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
<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/B85	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/B85	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&72	Class 5 (Typ. 21dbm)
<b>GNSS</b>		o	o	o
<b>Temperature</b>		-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
<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)
<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/D TLS/PING/ LWM2M/COAP/MQTT	TCP/UDP/HTTP/HTTPS/FTP/TLS/D TLS/PING/ LWM2M/COAP/MQTT	TCP/UDP/HTTP/HTTPS/FTP/TLS/D TLS/PING/ LWM2M/COAP/MQTT
<b>FOTA</b>		•	•	•
<b>Firmware Upgrade</b>		USB/FOTA	USB/FOTA	USB/FOTA
<b>Interfaces</b>				
<b>SIM Card</b>		1.8V	1.8V	1.8V
<b>UART</b>		•	•	•
<b>USB</b>		•	•	•
<b>Certification</b>				
<b>Regulatory</b>		FCC/IC/CE/RCM/JATE/TELEC/NCC/ ANATEL*/GCF/PTCRB/RoHS/REACH	CE/RCM/RoHS/REACH	FCC/IC/CE/RCM/JATE/TELEC/NCC/ ANATEL*/GCF/PTCRB/RoHS/REACH
<b>Carrier</b>		AT&T/VERIZON*/TMOBILE-US/ ROGERS*/TELSTRA*/VDF*/SoftBank*/DoCoMo*/KDDI*		AT&T/VERIZON*/TMOBILE-US/ ROGERS*/TELSTRA*/VDF*/SoftBank*/DoCoMo*/KDDI*

•: support o: optional \*: on going