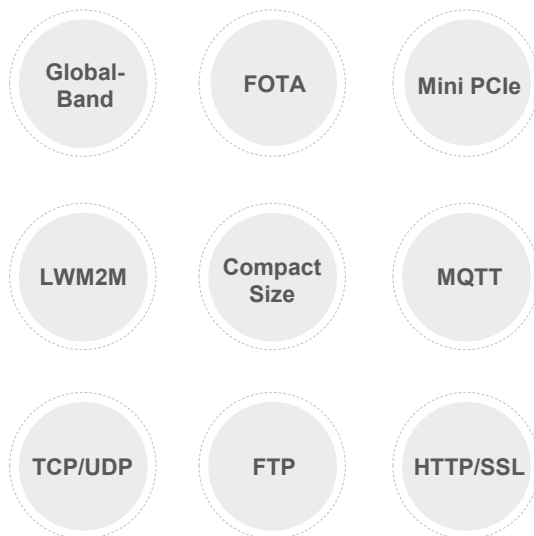
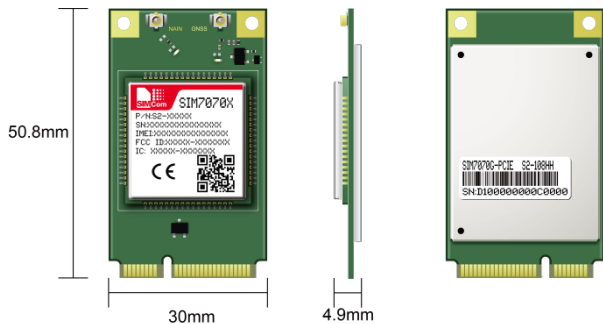


SIM7070-PCIE Series

SIMCom LPWA Module



Product Description

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

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
Form Factor		Mini PCIe	Mini PCIe
Dimensions(mm)		50.8*30*4.9	50.8*30*4.9
Frequency Bands	Cat-M	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
	Cat-NB	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
	GSM	850/900/1800/1900MHz	850/900/1800/1900MHz
LTE RF Power Class		Class 5 (Typ. 21dbm)	Class 5 (Typ. 21dbm) Class 2@B31&72
GNSS		o	o
Temperature		-40℃ ~ +85℃	-40℃ ~ +85℃
Electrical Features			
Supply Voltage Range(V)		3.3~ 4.3, Typ 3.8	3.3~ 4.3, Typ 3.8
Power Consumption (mA)	@Sleep	2	2
	@Idle	15	15
Data Transfer			
Cat-M(Kbps)		589(DL)/1119(UL)	589(DL)/1119(UL)
Cat-NB(Kbps)		127(DL)/158.5(UL)	127(DL)/158.5(UL)
EGPRS(Kbps)		296(DL)/236.8(UL)	296(DL)/236.8(UL)
Software Features			
Protocol		TCP/UDP/HTTP/HTTPS/FTP/TLS/DTLS/PING/LWM2M/COAP/MQTT	TCP/UDP/HTTP/HTTPS/FTP/TLS/DTLS/PING/LWM2M/COAP/MQTT
FOTA		•	•
Firmware Upgrade		USB/FOTA	USB/FOTA
Interfaces			
SIM Card		1.8V	1.8V
UART		•	•
USB		•	•
Certification			
Regulatory		FCC/IC/CE/RCM/JATE*/TELEC*/NCC*/ANATEL*/GCF*/PTCRB*/RoHS/REACH	CE/RCM/RoHS/REACH
Carrier		AT&T*/VERIZON*/TMOBILE-US*/SPRINT*/ROGERS*/TELSTRA*/VDF*/SoftBank*/DoCoMo*/KDDI*	

• : support o : optional * : on going