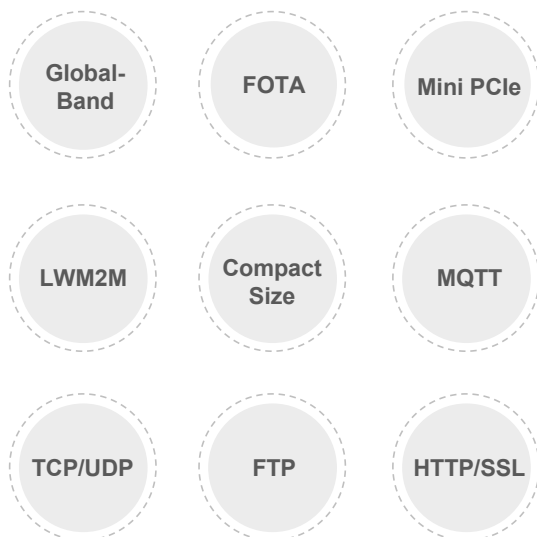
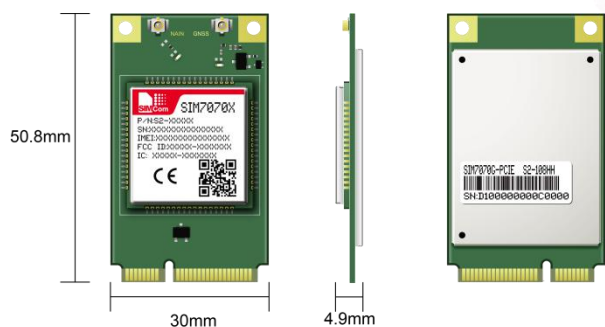


SIM7070-PCIE Series

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	SIM7070G-M-PCIE
Form Factor	Mini PCIe	Mini PCIe	Mini PCIe	Mini PCIe
Dimensions(mm)	50.8*30*4.9	50.8*30*4.9	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/B73*/B85/B87/B88	B1/B2/B3/B4/B5/B8/B12/B13/B14/B18/B19/B20/B25/B26/B27/B28/B66/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/B73*/B85/B87/B88	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B28/B66/B71/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/B72/B87/B88	Class 5 (Typ. 21dbm)	Class 5 (Typ. 21dbm)
GNSS	0	0	0	0
Temperature	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C
Electrical Features				
Supply Voltage Range(V)	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
Power Consumption (mA)	@Sleep	2	2	2
	@Idle	15	15	15
Data Transfer				
Cat-M(Kbps)	589(DL)/1119(UL)	589(DL)/1119(UL)	589(DL)/1119(UL)	589(DL)/1119(UL)
Cat-NB(Kbps)	127(DL)/158.5(UL)	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	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	USB/FOTA	USB/FOTA
Interfaces				
SIM Card	1.8V	1.8V	1.8V	1.8V
UART	•	•	•	•
USB	•	•	•	•
Certification				
Regulatory	RoHS/REACH/CCC/NAL/SRRC/NCC/JATE/Telec/RCM/CE(RED)/GCF/FCC/PTCRB/IC/Anatel*	RoHS/REACH/CE/FCC*/Anatel*	RoHS/REACH/CCC/NAL/SRRC/NCC/JATE/Telec/RCM/CE(RED)/GCF/FCC/PTCRB/IC/Anatel*	RoHS/REACH/CCC/NAL/SRRC/NCC/JATE/Telec/RCM/CE(RED)/GCF/FCC/PTCRB/IC/Anatel*
Carrier	Orange*/TIM*/Deutsche Telekom/Telefonica*/Vodafone*/AT&T/Verizon*/Tmobile/US Celluar		Orange*/TIM*/Deutsche Telekom/Telefonica*/Vodafone*/AT&T/Verizon*/Tmobile/US Celluar	Orange*/TIM*/Deutsche Telekom/Telefonica*/Vodafone*/AT&T/Verizon*/Tmobile/US Celluar

• : support ○ : optional * : means under developing/on-going/planning