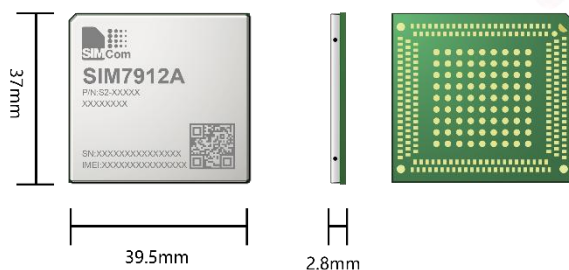


SIM7912A

SIMCom LTE Cat 12 Module



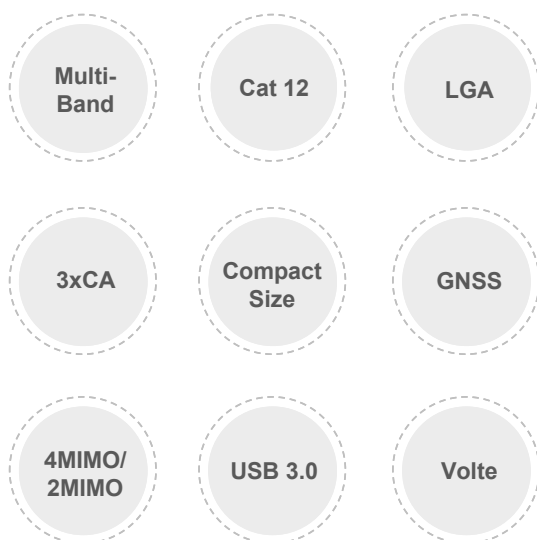
Product Description

SIM7912A is a Multi-Band LTE-FDD/LTE-TDD/HSPA+ module which supports Category 12 with CA and MIMO.

With a rich protocols, it is integrated with interfaces such as PCIe, USB3.0, GPIO etc. This module provides applications with great flexibility and ability of integration.

SIM7912A adopts LGA form factor. AT commands of SIM7912A are compatible with SIM79XX series modules. This also minimizes costs for customer and shortens time to market.

It is designed for applications that need huge data transmission in various wireless situations. Due to its high efficiency, security and flexibility, this module suits various applications.



Key Benefits

- ◆ LGA form factor with various interfaces
- ◆ Huge data transmission
- ◆ AT commands of SIM7912A compatible with SIM79XX series modules

Product	SIM7912A 0NN1G0BA	SIM7912A 0NN1G0BC	SIM7912A 0NN1G0AB
Form Factor	LGA	LGA	LGA
Dimensions(mm)	39.5*37.0*2.8	39.5*37.0*2.8	39.5*37.0*2.8
Frequency Bands	LTE-FDD B2/B4/B5/B7/B12/B13/B14/B17/B25/ B26/B28/B66/B71	B2/B4/B5/B7/B12/B13/B14/B17/B25/ B26/B28/B66/B71	B2/B4/B5/B7/B12/B13/B14/B17/B25/ B26/B28/B66/B71
	LTE-TDD B40/B41/B42/B43/B46/B48	B40/B41/B42/B43/B48	B40/B41
	WCDMA B2/B4/B5	B2/B4/B5	B2/B4/B5
GNSS	•	•	•
MIMO	4x4 MIMO	4x4 MIMO	2x2 MIMO
Temperature	-30°C ~ +70°C	-30°C ~ +70°C	-30°C ~ +70°C
Electrical Features			
Supply Voltage(V)	3.3 ~ 4.3	3.3 ~ 4.3	3.3 ~ 4.3
Data Transfer			
LTE	600Mbps(DL)/150Mbps(UL)	600Mbps(DL)/150Mbps(UL)	600Mbps(DL)/150Mbps(UL)
HSPA+	42Mbps (DL)/11.2Mbps(UL)	42Mbps (DL)/11.2Mbps(UL)	42Mbps (DL)/11.2Mbps(UL)
Software Features			
Protocol	TCP/IP/IPV4/IPV6/Multi- PDP/FTP/FTPS/HTTP/HTTPS/MQTT S/DNS/SSL3.0	TCP/IP/IPV4/IPV6/Multi- PDP/FTP/FTPS/HTTP/HTTPS/MQTT S/DNS/SSL3.0	TCP/IP/IPV4/IPV6/Multi- PDP/FTP/FTPS/HTTP/HTTPS/MQTT S/DNS/SSL3.0
TLS	•	•	•
File System	•	•	•
FOTA	•	•	•
Android RIL	Android 6/7/8/9	Android 6/7/8/9	Android 6/7/8/9
USB Driver	Microsoft Windows Win7/Win8/Win10/Linux/Android	Microsoft Windows Win7/Win8/Win10/Linux/Android	Microsoft Windows Win7/Win8/Win10/Linux/Android
MBIM	Win8/Win10	Win8/Win10	Win8/Win10
NDIS	Linux/Win7/Win8/Win10	Linux/Win7/Win8/Win10	Linux/Win7/Win8/Win10
Firmware Upgrade	USB	USB	USB
Interfaces			
SIM Card	1.8V/2.95V	1.8V/2.95V	1.8V/2.95V
USB	•	•	•
PCM	•	•	•
I2C	•	•	•
Diversity Receiver	•	•	•
Certifications			
Regulatory	FCC/PTCRB*/ROHS/REACH		

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