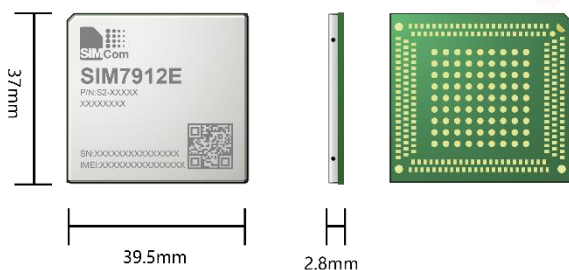


SIM7912E

SIMCom LTE Cat 12 Module



Product Description

SIM7912E 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.

SIM7912E adopts LGA form factor. AT commands of SIM7912E 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 SIM7912E compatible with SIM79XX series modules

Product	SIM7912E 0NN1G0BA	SIM7912E 0NN1G0BC	SIM7912E 0NN1G0BB	SIM7912E 0NN1G0AB
Form Factor	LGA	LGA	LGA	LGA
Dimensions(mm)	39.5*37.0*2.8	39.5*37.0*2.8	39.5*37.0*2.8	39.5*37.0*2.8
LTE-FDD	B1/B3/B5/B7/B8/B20/B28/B32	B1/B3/B5/B7/B8/B20/B28/B32	B1/B3/B5/B7/B8/B20/B28/B32	B1/B3/B5/B7/B8/B20/B28/B32
Frequency Bands	LTE-TDD B38/B40/B41/B42/B43/B46/B48	B38/B40/B41/B42/B43/B48	B38/B40/B41	B38/B40/B41
WCDMA	B1/B3/B5/B8	B1/B3/B5/B8	B1/B3/B5/B8	B1/B3/B5/B8
GNSS	•	•	•	•
MIMO	4x4 MIMO	4x4 MIMO	4x4 MIMO	2x2 MIMO
Temperature	-30°C ~ +70°C	-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	3.3 ~ 4.3
Data Transfer				
LTE	600Mbps(DL)/150Mbps(UL)	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)	42Mbps (DL)/11.2Mbps(UL)
Software Features				
Protocol	TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/HTTP/HTTPS/MQTT/DNS/SSL3.0	TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/HTTP/HTTPS/MQTT/DNS/SSL3.0	TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/HTTP/HTTPS/MQTT/DNS/SSL3.0	TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/HTTP/HTTPS/MQTT/DNS/SSL3.0
TLS	•	•	•	•
File System	•	•	•	•
FOTA	•	•	•	•
Android RIL	Android 6/7/8/9	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	Microsoft Windows Win7/Win8/Win10/Linux/Android
MBIM	Win8/Win10	Win8/Win10	Win8/Win10	Win8/Win10
NDIS	Linux/Win7/Win8/Win10	Linux/Win7/Win8/Win10	Linux/Win7/Win8/Win10	Linux/Win7/Win8/Win10
Firmware Upgrade	USB	USB	USB	USB
Interfaces				
SIM Card	1.8V/2.95V	1.8V/2.95V	1.8V/2.95V	1.8V/2.95V
USB	•	•	•	•
PCM	•	•	•	•
I2C	•	•	•	•
Diversity Receiver	•	•	•	•
Certifications				
Regulatory	CE/GCF*/ROSH/REACH			

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