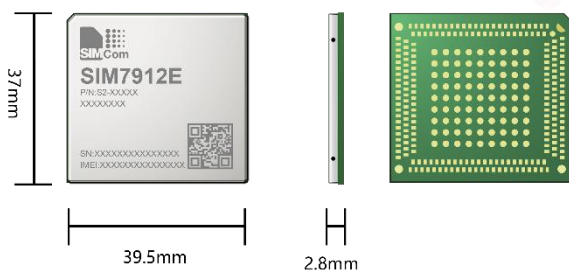


SIM7912E

SIMCom LTE Cat 12 Module

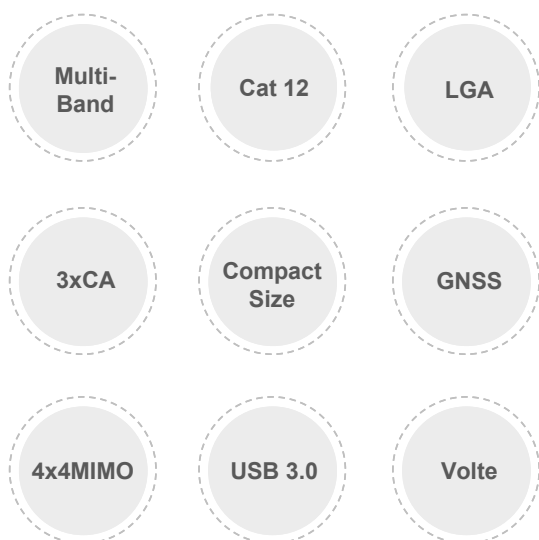


Product Description

SIM7912E is the LTE Cat 12 module which supports wireless communication modes of LTE-TDD/LTE-FDD/HSPA+. It supports maximum 600Mbps downlink rate and 150Mbps uplink rate.

SIM7912E adopts LGA form factor. It is easy for customers to integrate.

SIM7912E integrates multiple satellite high accuracy positioning GNSS systems, with multiple built-in network protocols, supports drivers for main operation systems (USB driver for Windows, Linux and Android etc.) and software function, AT commands are compatible with SIM7500/SIM7600/SIM7906 series modules. Meanwhile SIM7912E integrates main industrial standard interfaces, with powerful expansibility, including abundant interfaces such as UART, USB, GPIO, which is suitable for main IoT applications such as telematics, surveillance devices, CPE, industrial routers, and remote diagnostics etc.



Key Benefits

- ◆ LGA interface with strong compatibility
- ◆ Suitable for LTE, HSPA+ networks with global coverage
- ◆ Abundant software functions: FOTA, SSL, TLS
- ◆ Multi-constellation GNSS receiver support
- ◆ AT commands of SIM7912G-M2 are compatible with the SIM7500/SIM7600/SIM7906 series modules

Product		SIM7912E
Form Factor		LGA
Dimensions(mm)		39.5*37.0*2.8
Frequency Bands	LTE-FDD	B1/B3/B5/B7/B8/B20/B28
	LTE-TDD	B38/B40/B41
	CA	2CA: B1+B1/B3/B5/B7/B8/B20/B28/B38/B40/B41;B3+B3/B5/B7/B8/B20/B28/B38/B40/B41;B7+B5/B7/B8/B20/B28; B20+B38/B40;B38+B38;B40+B40;B41+B41 3CA: B1+B3+B3/B5/B7/B8/B20/B28/B38/B41;B1+B40+B40;B1+B41+B41;B1+B7+B20;B3+B3+B7/B20/B28; B3+B7+B7/B8/B20/B28;B3+B40+B40;B3+B41+B41;B7+B7+B20/B28;B40+B40+B40;B41+B41+B41
WCDMA	B1/B3/B5/B8	
GNSS		•
Temperature		-30°C ~ +70°C
Electrical Features		
Supply Voltage(V)		3.135 ~ 4.4
Data Transfer		
LTE		600Mbps(DL)/150Mbps(UL)
HSPA+		42Mbps (DL)/11.2Mbps(UL)
Software Features		
Protocol		TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/HTTP/HTTPS/MQTTs/DNS/SSL3.0
TLS		•
File System		•
FOTA		•
Android RIL		Android 6/7/8/9
USB Driver		Microsoft Windows Win7/Win8/Win10/Linux/Android
MBIM		Win8/Win10
NDIS		Linux/Win7/Win8/Win10
Firmware Upgrade		USB
Interfaces		
SIM Card		1.8V/2.95V
USB		•
PCM		•
I2C		•
Diversity Receiver		•
Certifications		
Regulatory		CE*

•: support o: optional *: on going