SIM7906E V2.03
SIMCom LTE Cat 6 Module

37mm
39.5mm
2.8mm

Multi-Band | **Cat 6** | **LGA**

2xCA | **Compact Size** | **GNSS**

4MIMO | **USB 3.0** | **Volte**
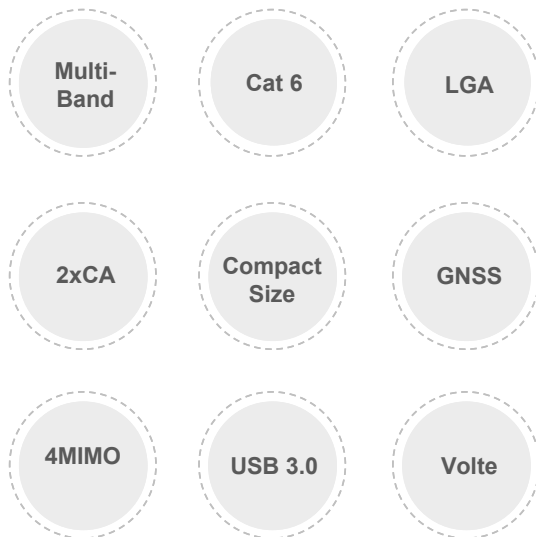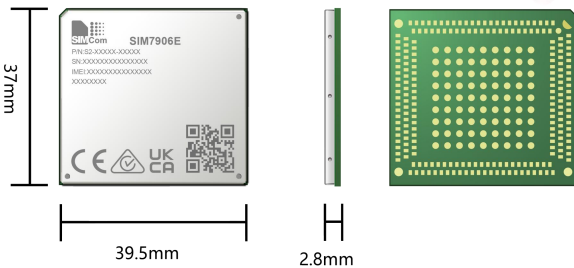
Product Description

SIM7906E is the LTE Cat 6 module which supports wireless communication modes of LTE-TDD/LTE-FDD/HSPA+. It supports maximum 300Mbps downlink rate and 50Mbps uplink rate.

SIM7906E adopts LGA form factor. It is easy for customers to integrate.

SIM7906E 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/SIM7912 series modules. Meanwhile SIM7906E 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 SIM7906E are compatible with the SIM7500/SIM7600/SIM7912 series modules

Product	SIM7906E 1HJ0G0BC	SIM7906E 1HJ0G0BB
Form Factor	LGA	LGA
Dimensions(mm)	39.5*37.0*2.8	39.5*37.0*2.8
Frequency Bands — LTE-FDD	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/B48	B38/B40/B41
Frequency Bands — WCDMA	B1/B3/B5/B8	B1/B3/B5/B8
GNSS	●	●
MIMO	4x4 MIMO	4x4 MIMO
Temperature	-30℃ ~ +70℃	-30℃ ~ +70℃
Electrical Features		
Supply Voltage(V)	3.3 ~ 4.3	3.3 ~ 4.3
Data Transfer		
LTE	300Mbps(DL)/50Mbps(UL)	300Mbps(DL)/50Mbps(UL)
HSPA+	42Mbps (DL)/11.2Mbps(UL)	42Mbps (DL)/11.2Mbps(UL)
Software Features		
Protocol	TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/HTTP/HTTPS/MQTTS/DNS/SSL3.0	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	Android 6/7/8/9
USB Driver	Microsoft Windows Win7/Win8/Win10/Linux/Android	Microsoft Windows Win7/Win8/Win10/Linux/Android
MBIM	Win8/Win10	Win8/Win10
NDIS	Linux/Win7/Win8/Win10	Linux/Win7/Win8/Win10
Firmware Upgrade	USB	USB
Interfaces		
SIM Card	1.8V/2.95V	1.8V/2.95V
USB	●	●
PCM	●	●
I2C	●	●
Diversity Receiver	●	●
Certifications		
Regulatory	CE*/GCF*	CE*/GCF*

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