SIM7906-M2 Series

SIMCom LTE Cat 6 Module

42mm
30mm
2.3mm

Multi-Band

Cat 6

M.2

Standard Interface

Compact Size

GNSS

TCP/IP

USB 3.0

**SSL**
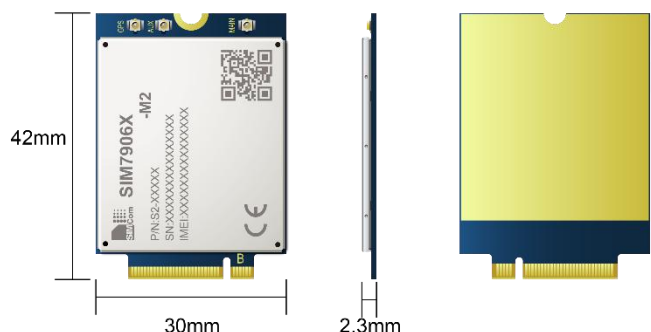
Product Description

The SIM7906-M2 series 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.

The SIM7906-M2 series adopts M.2 form factor. It is easy for customers to integrate.

The SIM7906-M2 series 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 series modules. Meanwhile the SIM7906-M2 series 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.
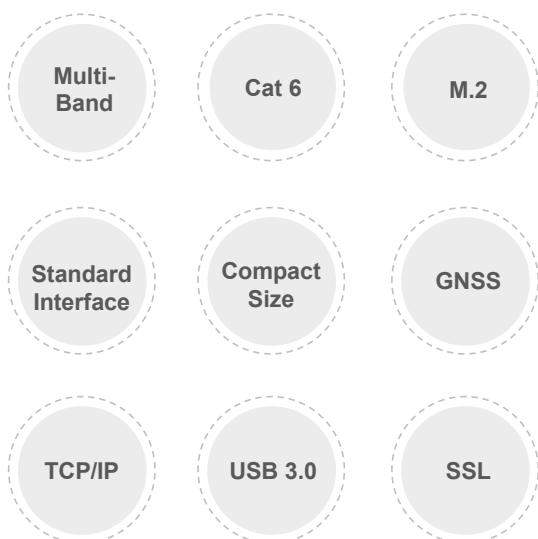
Key Benefits

◆ M.2 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 the SIM7906-M2 series are compatible with the SIM7500/SIM7600 series modules

Product	SIM7906E-M2	SIM7906SA-M2
Form Factor	M.2	M.2
Dimensions(mm)	42.0*30.0*2.3	42.0*30.0*2.3

Frequency Bands			
	LTE-FDD	B1/B3/B5/B7/B8/B20/B28/B32	B1/B2/B3/B4/B5/B7/B12/B17/B26/B27/B28/B66
	LTE-TDD	B38/B40/B41	B38/B41
	DL 2CA	B1+B1/B5/B8/B20; B3+B3/B5/B7/B8/B20/B28; B7+B5/B7/B8/B20/B28; B20+B32; B38+B38; B40+B40; B41+B41; (Note:B32 is only for secondary component carrier)	B1+B1/B5/B28; B2+B2/B5/B28; B3+B3/B5/B28; B4+B4/B5/B7/B27/B28; B5+B7/B38/B41/B66; B7+B7/B28; B12+B66; B26+B38/B41; B28+B28/B66; B38+B38; B41+B41; B66+B66;
	WCDMA	B1/B3/B5/B8	B1/B2/B4/B5
GNSS		o	o
Temperature		-30℃ ~ +70℃	-30℃ ~ +70℃

Electrical Features		
Supply Voltage Range(V)	3.135~ 4.4	3.135~ 4.4

Data Transfer		
LTE(Mbps)	300(DL)/50(UL)	300(DL)/50(UL)
HSPA+(Mbps)	42(DL)/5.76(UL)	42(DL)/5.76(UL)

Software Features		
Protocol	TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/HTTP/HTTPS/DNS*/SSL3.0/TLS1.0/TLS1.2	TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/HTTP/HTTPS/DNS*/SSL3.0/TLS1.0/TLS1.2
File System	●	●
FOTA	●	●
Android RIL	Android 6/7/8/9	Android 6/7/8/9
USB Driver	Microsoft Windows 2000/XP/Vista/Win7/Win8/Win10/Linux/Android	Microsoft Windows 2000/XP/Vista/Win7/Win8/Win10/Linux/Android
NDIS	Linux/Win7/Win8/Win10	Linux/Win7/Win8/Win10
Firmware Upgrade	USB/FOTA	USB/FOTA

Interfaces		
SIM Card	1.8V/3.0V	1.8V/3.0V
UART	●	●
USB	●	●
GPIO	●	●
I2C	●	●
Diversity Receiver	●	●

Certification		
Regulatory	CE/RCM/RoHS/REACH	RoHS*/REACH*
Carrier		Telstra*

●: support   o: optional   * : on going

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