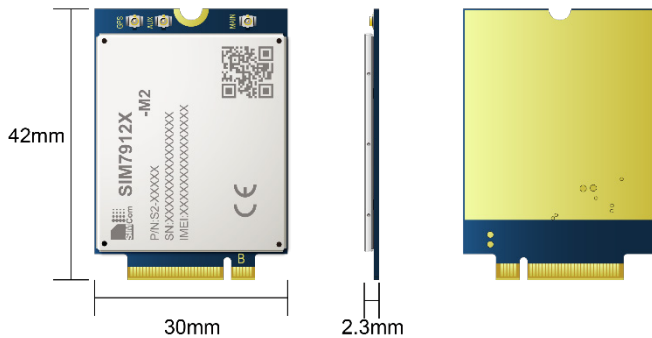


SIM7912G-M2

SIMCom LTE Cat 12 Module

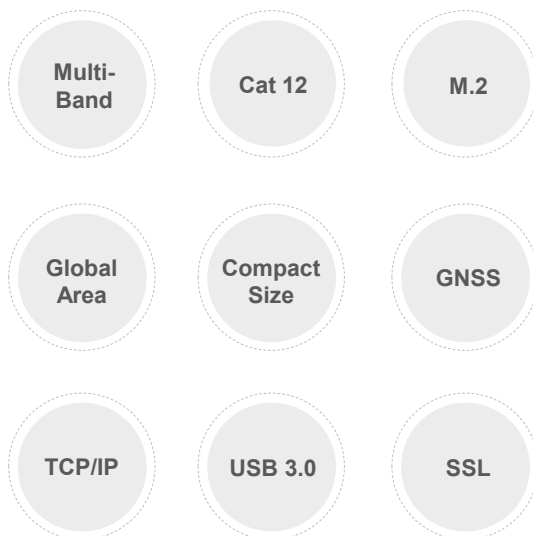


Product Description

SIM7912G-M2 is the LTE Cat 12 module which supports wireless communication modes of LTE-TDD/LTE-FDD/HSPA+. It supports maximum 600Mbps downlink rate and 75Mbps uplink rate.

SIM7912G-M2 adopts M.2 form factor. It is easy for customers to integrate.

SIM7912G-M2 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 SIM7912G-M2 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 SIM7912G-M2 are compatible with the SIM7500/SIM7600/SIM7906 series modules

General Features

	LTE-FDD B1/B2/B3/B4/B5/B7/B8/B12/B13/B17/B18/ B19/B20/B25/B26/B28/B29/B30/B32/B66
	LTE-TDD B38/B39/B40/B41
	DL 2CA B1+3/5/18/19/20/26; B2+2/4/5/12/13/17/29/30/66; B3+3/5/7/8/19/20/28; B4+4/5/12/13/17/29/30; B5+7/30/66; B7+7/20/28; B12+30; B13+66; B20+B32; B29+30; B38+38; B39+39; B39+41; B40+40; B41+41; B66+66/12/29/30/5; (Note: B29; B32 is only for secondary component carrier)
Frequency Bands	DL 3CA B1+3+5/8/19/20/28; B1+7+20; B2+4+5; B2+4+13; B2+5+30; B2+12+30; B2+29+30; B3+7+20; B3+7+28 ; B3+7+8; B4+5+30; B4+12+30; B4+29+30 ; B5+66+2; B13+66+2; B66+12+30; B66+29+30; B66+5+30; DL 2 intra-band plus inter-band 3CA B2+2+5; B2+2+13; B3+3+7; B3+7+7; B3+3+20; B3+3+28; B3+3+1; B4+4+5; B4+4+13; B7+7+28; B5+66+66; B13+66+66; B66+66+2; B39+B39+B41; B39+B41+B41; DL 3 intra-band 3CA B40+40+40; B41+41+41; B66+66+66
	WCDMA B1/B2/B3/B4/B5/B8/B9/B19
Supply voltage range	3.135V ~ 4.4V, Typ. 3.7V
Control Via AT Commands	
Operation temperature	-30°C ~ +70°C
Dimensions	42.0*30.0*2.3mm
Weight	6.1g±0.2g

Other Features

USB Driver for Microsoft Windows 2000/XP/Vista/Win7/Win8/Win10
USB Driver for Linux /Android
RIL supporting for Android 6/7/8/9
Firmware update via USB
TCP/IP/IPV4/IPV6/Multi-PDP/DNS*
SSL3.0/TLS1.0/TLS1.2
FOTA*

Interfaces

USB	*1
UART	*1
SIM card	*1
PCIE	*1
PCM	*1
I2C	*1
Antenna	*3

Data

LTE	Uplink 75Mbps
	Downlink 600Mbps
HSPA+	Uplink 5.76Mbps
	Downlink 42Mbps

Certifications

FCC*/IC*/CE/RCM*
RoHS*/REACH*

Note

*: on going