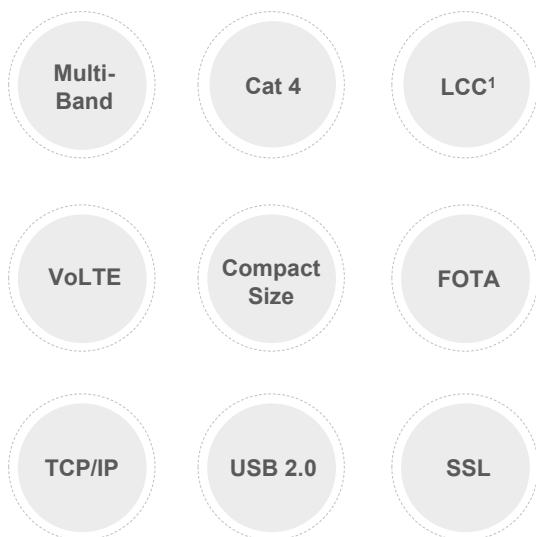
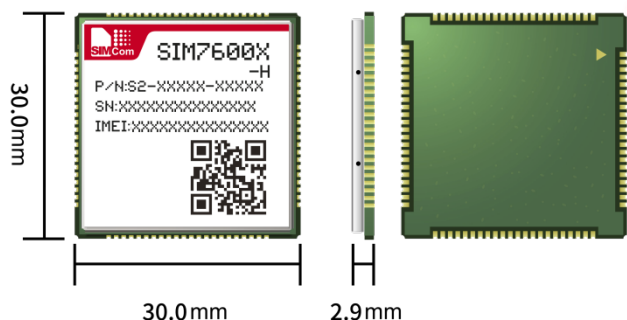


SIM7600-H Series

SIMCom LTE Cat 4 Module



Key Benefits

- ◆ LCC¹ form factor with abundant interfaces
- ◆ Suitable for LTE, UMTS and GSM networks with global coverage
- ◆ Abundant software functions: FOTA, LBS, TLS, VoLTE
- ◆ Multi-constellation GNSS receiver support
- ◆ AT commands of the SIM7600-H series are compatible with the SIM7500/SIM7600 series modules

Product Description

The SIM7600-H series is the LTE Cat 4 module which supports wireless communication modes of LTE-TDD/LTE-FDD/HSPA+/GSM/GPRS/EDGE etc. It supports maximum 150Mbps downlink rate and 50Mbps uplink rate.

The SIM7600-H series adopts LCC¹ form factor and is compatible with SIM5320/SIM5360 series(UMTS/HSPA+ modules), and SIM7600 series(LTE modules), which enables smooth migration from 3G products to LTE products, and greatly facilitates more compatible product design for the customer needs.

The SIM7600-H 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 SIM7600-H series integrates main industrial standard interfaces, with powerful expansibility, including abundant interfaces such as UART, USB, I2C, GPIO, which is suitable for main IoT applications such as telematics, surveillance devices, CPE, industrial routers, and remote diagnostics etc.

NOTE

1: The form factor of SIM7600NA-H & SIM7600G-H is LCC+LGA

| Product | SIM7600A-H | SIM7600V-H | SIM7600SA-H | SIM7600JC-H |
|----------------------------|--|--|--|--|
| Form Factor | LCC, 87PIN | LCC, 87PIN | LCC, 87PIN | LCC, 87PIN |
| Dimensions(mm) | 30.0*30.0*2.9 | 30.0*30.0*2.9 | 30.0*30.0*2.9 | 30.0*30.0*2.9 |
| Frequency Bands | LTE-FDD | B2/B4/B12 | B2/B4/B5/B13 | B1/B2/B3/B4/B5/B7/B8/B20/B28/B66 |
| | LTE-TDD | | | B40 |
| | WCDMA | B2/B5 | | B1/B2/B5/B8 |
| | GSM | | | 850/900/1800/1900MHz |
| GNSS | o | o | o | o |
| Temperature | -40°C ~ +85°C | -40°C ~ +85°C | -40°C ~ +85°C | -40°C ~ +85°C |
| Electrical Features | | | | |
| Supply Voltage(V) | 3.4~ 4.2 | 3.4~ 4.2 | 3.4~ 4.2 | 3.4~ 4.2 |
| Power Consumption (mA) | LTE | 2.3 | 2.3 | 2.3 |
| | WCDMA, DRX=9 | 3.3 | | 3.3 |
| | GSM,BS_PA_MFRMS=2 | | | 2.8 |
| Data Transfer | | | | |
| LTE(Mbps) | 150(DL)/50(UL) | 150(DL)/50(UL) | 150(DL)/50(UL) | 150(DL)/50(UL) |
| HSPA+(Mbps) | 42(DL)/5.76(UL) | | 42(DL)/5.76(UL) | |
| WCDMA(Kbps) | 384(DL)/384(UL) | | 384(DL)/384(UL) | |
| GPRS/EDGE(Kbps) | | | 236.8(DL)/236.8(UL) | |
| Software Features | | | | |
| Protocol | TCP/IP/IPV4/IPV6/ Multi-PDP/FTP/FTPS/HTTP/ HTTPS/DNS | TCP/IP/IPV4/IPV6/ Multi-PDP/FTP/FTPS/HTTP/ HTTPS/DNS | TCP/IP/IPV4/IPV6/ Multi-PDP/FTP/FTPS/HTTP/ HTTPS/DNS | TCP/IP/IPV4/IPV6/ Multi-PDP/FTP/FTPS/ HTTP/HTTPS/DNS |
| TLS | • | • | • | • |
| File System | • | • | • | • |
| Audio Record/Play | o | o | o | o |
| TTS | o | o | o | o |
| DTMF | o | o | o | o |
| LBS | • | • | • | • |
| FOTA | • | • | • | • |
| Jamming Detection | • | • | • | • |
| Android RIL | Android 5.0/6.0/7.0/8.0/9.0 | Android 5.0/6.0/7.0/8.0/9.0 | Android 5.0/6.0/7.0/8.0/9.0 | Android 5.0/6.0/7.0/8.0/9.0 |
| USB Driver | Microsoft Windows 7/8/10 Linux/Android | Microsoft Windows 7/8/10 Linux/Android | Microsoft Windows 7/8/10 Linux/Android | Microsoft Windows 7/8/10 Linux/Android |
| WWAN (RNDIS) | • | • | • | • |
| ECM | • | • | • | • |
| MBIM | Win8/Win10 | Win8/Win10 | Win8/Win10 | Win8/Win10 |
| NDIS | Linux/Windows 7/8/10 | Linux/Windows 7/8/10 | Linux/Windows 7/8/10 | Linux/Windows 7/8/10 |
| Open Linux | o | o | o | o |
| Firmware Upgrade | USB/FOTA | USB/FOTA | USB/FOTA | USB/FOTA |
| Interfaces | | | | |
| SIM Card | 1.8V/3.0V | 1.8V/3.0V | 1.8V/3.0V | 1.8V/3.0V |
| UART | • | • | • | • |
| USB | • | • | • | • |
| PCM | o | o | o | o |
| ADC | • | • | • | • |
| SD Card | • | • | • | • |
| SPI | o | o | o | o |
| I2C | • | • | • | • |
| Diversity Receiver | • | • | • | • |
| Certification | | | | |
| Regulatory | FCC/PTCRB/IC/RoHS/ REACH | FCC/GCF/RoHS/REACH | CE-RED/ACMA/FCC/NCC/ RoHS/REACH/Anatel | Telec/JATE/RoHS/REACH |
| Carrier | AT&T | Verizon | | Docomo/Softbank |

• : support o : optional * : on going

| Product | SIM7600E-H | SIM7600E-H1C | SIM7600NA-H | SIM7600G-H |
|-------------------------------|--|--|--|--|
| Form Factor | LCC, 87PIN | LCC, 87PIN | LCC+LGA, 119PIN | LCC+LGA, 119PIN |
| Dimensions(mm) | 30.0*30.0*2.9 | 30.0*30.0*2.9 | 30.0*30.0*2.9 | 30.0*30.0*2.9 |
| Frequency Bands | LTE-FDD | B1/B3/B5/B7/B8/B20 | B1/B3/B5/B7/B8/B20 | B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28/B66 |
| | LTE-TDD | B38/B40/B41 | B38/B40/B41 | B34/B38/B39/B40/B41 |
| | WCDMA | B1/B5/B8 | B1/B5/B8 | B1/B2/B4/B5/B6/B8/B19 |
| | GSM | 900/1800MHz | 900/1800MHz | 850/900/1800/1900MHz |
| GNSS | o | o | o | o |
| Temperature | -40°C ~ +85°C | -40°C ~ +85°C | -40°C ~ +85°C | -40°C ~ +85°C |
| Electrical Features | | | | |
| Supply Voltage(V) | 3.4~ 4.2 | 3.4~ 4.2 | 3.4~ 4.2 | 3.4~ 4.2 |
| Power Consumption (mA) | LTE | 2.3 | 2.3 | 2.3 |
| | WCDMA, DRX=9 | 3.3 | 3.3 | 3.3 |
| | GSM,BS_PA_MFRMS=2 | 2.8 | 2.8 | 2.8 |
| Data Transfer | | | | |
| LTE(Mbps) | 150(DL)/50(UL) | 150(DL)/50(UL) | 150(DL)/50(UL) | 150(DL)/50(UL) |
| HSPA+(Mbps) | 42(DL)/5.76(UL) | 42(DL)/5.76(UL) | 42(DL)/5.76(UL) | 42(DL)/5.76(UL) |
| WCDMA(Kbps) | 384(DL)/384(UL) | 384(DL)/384(UL) | 384(DL)/384(UL) | 384(DL)/384(UL) |
| GPRS/EDGE(Kbps) | 236.8(DL)/236.8(UL) | 236.8(DL)/236.8(UL) | 236.8(DL)/236.8(UL) | 236.8(DL)/236.8(UL) |
| Software Features | | | | |
| Protocol | TCP/IP/IPV4/IPV6/ Multi-PDP/FTP/FTPS/ HTTP/HTTPS/DNS | TCP/IP/IPV4/IPV6/ Multi-PDP/FTP/FTPS/ HTTP/HTTPS/DNS | TCP/IP/IPV4/IPV6/ Multi-PDP/FTP/FTPS/ HTTP/HTTPS/DNS | TCP/IP/IPV4/IPV6/ Multi-PDP/FTP/FTPS/HTTP/ HTTPS/DNS |
| TLS | • | • | • | • |
| File System | • | • | • | • |
| Audio Record/Play | o | o | o | o |
| TTS | o | o | o | o |
| DTMF | o | o | o | o |
| LBS | • | • | • | • |
| FOTA | • | • | • | • |
| Jamming Detection | • | • | • | • |
| Android RIL | Android 5.0/6.0/7.0/8.0/9.0 | Android 5.0/6.0/7.0/8.0/9.0 | Android 5.0/6.0/7.0/8.0/9.0 | Android 5.0/6.0/7.0/8.0/9.0 |
| USB Driver | Microsoft Windows 7/8/10 Linux/Android | Microsoft Windows 7/8/10 Linux/Android | Microsoft Windows 7/8/10 Linux/Android | Microsoft Windows 7/8/10 Linux/Android |
| WWAN (RNDIS) | • | • | • | • |
| ECM | • | • | • | • |
| MBIM | Win8/Win10 | Win8/Win10 | Win8/Win10 | Win8/Win10 |
| NDIS | Linux/Windows 7/8/10 | Linux/Windows 7/8/10 | Linux/Windows 7/8/10 | Linux/Windows 7/8/10 |
| Open Linux | o | o | o | o |
| Firmware Upgrade | USB/FOTA | USB | USB/FOTA | USB/FOTA |
| Interfaces | | | | |
| SIM Card | 1.8V/3.0V | 1.8V/3.0V | 1.8V/3.0V | 1.8V/3.0V |
| UART | • | • | • | • |
| USB | • | • | • | • |
| PCM | o | o | o | o |
| ADC | • | • | • | • |
| SD Card | • | • | • | • |
| SPI | o | o | o | o |
| I2C | • | • | • | • |
| Diversity Receiver | • | o | • | • |
| Certification | | | | |
| Regulatory | CE-RED/RoHS/REACH/ IMDA/GCF | CE-RED/RoHS/REACH | FCC*/IC*/PTCRB*/GCF*/ RoHS*/REACH* | CE-RED/FCC/IC/RCM/RoHS*/ REACH* |
| Carrier | Deutsche Telekom /Vodafone | | AT&T*/Verizon*/Sprint*/ T-mobile* | |

• : support o : optional * : on going