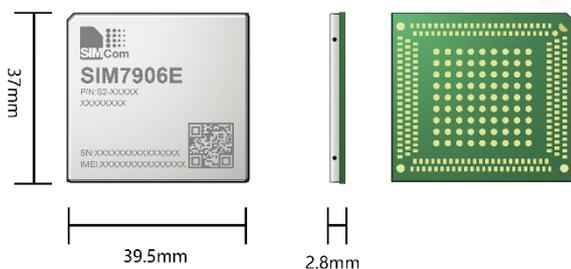


# SIM7906E

## SIMCom LTE Cat 6 Module



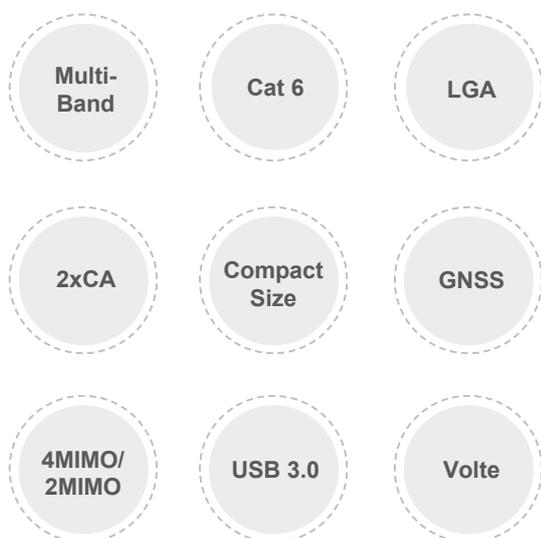
### Product Description

SIM7906E is a Multi-Band LTE-FDD/LTE-TDD/HSPA+ module which supports Category 6 with CA and MIMO.

With a rich protocols, it is integrated with interfaces such as PCIe, USB3.0, GPIO etc. This module provides applications with great flexibility and ability of integration.

SIM7906E adopts LGA form factor. AT commands of SIM7906E are compatible with SIM79XX series modules. This also minimizes costs for customer and shortens time to market.

It is designed for applications that need huge data transmission in various wireless situations. Due to its high efficiency, security and flexibility, this module suits various applications.



### Key Benefits

- ◆ LGA form factor with various interfaces
- ◆ Huge data transmission
- ◆ AT commands of SIM7906E compatible with SIM79XX series modules

| Product                    | SIM7906E 1NN1G0BA  | SIM7906E 1NN1G0BC  | SIM7906E 1NN1G0AB  |
|----------------------------|--|--|--|
| <b>Form Factor</b>         | LGA  | LGA  | LGA  |
| <b>Dimensions(mm)</b>      | 39.5*37.0*2.8  | 39.5*37.0*2.8  | 39.5*37.0*2.8  |
| <b>Frequency Bands</b>     |  |  |  |
| <b>LTE-FDD</b>             | B1/B3/B5/B7/B8/B20/B28/B32                                       | B1/B3/B5/B7/B8/B20/B28/B32                                       | B1/B3/B5/B7/B8/B20/B28/B32                                       |
| <b>LTE-TDD</b>             | B38/B40/B41/B42/B46/B43/B48                                      | B38/B40/B41/B42/B43/B48  | B38/B40/B41  |
| <b>WCDMA</b>               | B1/B3/B5/B8  | B1/B3/B5/B8  | B1/B3/B5/B8  |
| <b>GNSS</b>                | •  | •  | •  |
| <b>MIMO</b>                | 4x4 MIMO   | 4x4 MIMO   | 2x2 MIMO   |
| <b>Temperature</b>         | -30°C ~ +70°C  | -30°C ~ +70°C  | -30°C ~ +70°C  |
| <b>Electrical Features</b> |  |  |  |
| <b>Supply Voltage(V)</b>   | 3.3 ~ 4.3  | 3.3 ~ 4.3  | 3.3 ~ 4.3  |
| <b>Data Transfer</b>       |  |  |  |
| <b>LTE</b>                 | 300Mbps(DL)/50Mbps(UL)   | 300Mbps(DL)/50Mbps(UL)   | 300Mbps(DL)/50Mbps(UL)   |
| <b>HSPA+</b>               | 42Mbps (DL)/11.2Mbps(UL)   | 42Mbps (DL)/11.2Mbps(UL)   | 42Mbps (DL)/11.2Mbps(UL)   |
| <b>Software Features</b>   |  |  |  |
| <b>Protocol</b>            | TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/HTTP/HTTPS/MQTT S/DNS/SSL3.0 | TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/HTTP/HTTPS/MQTT S/DNS/SSL3.0 | TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/HTTP/HTTPS/MQTT S/DNS/SSL3.0 |
| <b>TLS</b>                 | •  | •  | •  |
| <b>File System</b>         | •  | •  | •  |
| <b>FOTA</b>                | •  | •  | •  |
| <b>Android RIL</b>         | Android 6/7/8/9  | Android 6/7/8/9  | Android 6/7/8/9  |
| <b>USB Driver</b>          | Microsoft Windows Win7/Win8/Win10/Linux/Android                  | Microsoft Windows Win7/Win8/Win10/Linux/Android                  | Microsoft Windows Win7/Win8/Win10/Linux/Android                  |
| <b>MBIM</b>                | Win8/Win10   | Win8/Win10   | Win8/Win10   |
| <b>NDIS</b>                | Linux/Win7/Win8/Win10  | Linux/Win7/Win8/Win10  | Linux/Win7/Win8/Win10  |
| <b>Firmware Upgrade</b>    | USB  | USB  | USB  |
| <b>Interfaces</b>          |  |  |  |
| <b>SIM Card</b>            | 1.8V/2.95V   | 1.8V/2.95V   | 1.8V/2.95V   |
| <b>USB</b>                 | •  | •  | •  |
| <b>PCM</b>                 | •  | •  | •  |
| <b>I2C</b>                 | •  | •  | •  |
| <b>Diversity Receiver</b>  | •  | •  | •  |
| <b>Certifications</b>      |  |  |  |
| <b>Regulatory</b>          | CE/GCF*/ROSH/REACH   |  |  |

•: support    ◦: optional    \*: means under developing/on-going/planning