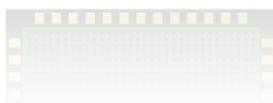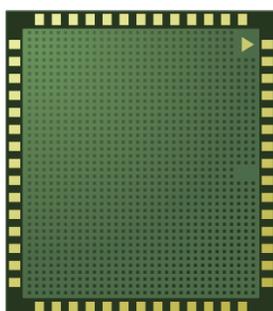# SIM7500E-L1C

Multi-Band LCC Cat1

VoLTE Compact Size GNSS

TCP/IP USB 2.0 SSL

Product Description

The SIM7500E-L1C is Multi-Band LTE-FDD/HSPA+ /UMTS/EDGE/GPRS/GSM module solution in a SMT type which supports LTE CAT1 up to 10Mbps data transfer. It has strong extension capability with rich interfaces including UART,USB2.0, GPIO etc. The module provides much flexibility and ease of integration for customer's application.

The package of SIM7500E-L1C is LGA. AT commands of SIM7500E-L1C are compatible with SIM7500/SIM7600 Series modules. This also minmize the investments of customers, and enables a short time-to-market.

It is designed for applications that need high throughput data communication in a variety of radio propagation conditions. Due to the unique combination of performance, security and flexibility, this module is ideally suited for many applications.

Key Benefits

- High throughput data communication.
- The AT commands of SIM7500E-L1C are compatible with SIM7500/SIM7600 Series modules.

General Features

- Supply voltage range: 3.4V ~ 4.2V, Typ: 3.8V
- Control Via AT Commands
- Operation temperature: -40℃ to +85℃
- Dimensions: 24.0*27.0*2.75mm
- Weight: 4.0g
- LTE-FDD: B1/B3/B7/B8/B20
  UMTS/HSPA/HSPA+: B1/B8
  GSM/GPRS/EDGE: B3/B8
- GNSS:GPS/GLONASS/BeiDou

Interfaces

- USB Driver for Microsoft Windows 2000/XP/Vista/Win7/Win8/Win10
- USB Driver for Linux /Android
- RIL supporting for Android 4.4/5.0/6.0/7.0/8.0
- MBIM to Win8
- Firmware update via USB
- TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS /HTTP/HTTPS/DNS
- SSL3.0/TLS1.0/TLS1.2
- DTMF (Sending and Receiving)
- USB Audio and VoLTE

Data

- LTE CAT1
  - Uplink up to 5Mbps
  - Downlink up to 10Mbps
- HSDPA/HSUPA
  - Uplink up to 2.2Mbps
  - Downlink up to 2.8Mbps
- HSPA+
  - Uplink up to 5.76Mbps
  - Downlink up to 42.0Mbps
- UMTS
  - Uplink/Downlink up to 384.0Kbps
- EDGE
  - Uplink/Downlink up to 236.8Kbps
- GPRS
  - Uplink/Downlink up to 85.6Kbps

Other Features

- USB2.0 with High speed up to 480Mbps
- UART
- (U)SIM card (1.8V /3.0V)
- Digital Audio through PCM
- ADC
- I2C
- GPIO
- Antenna: Primary/GNSS

Approvals

- CE*

Smart machine Smart decision

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* Under Development