

LTE-FDD/LTE-TDD/UMTS/GSM/GPS Cellular Module

U9507E is a new generation of Longsung LTE wireless module, rich of Internet protocols, and standard interfaces and abundant functionalities. It can be designed in many kinds of applications which can work on LTE-FDD/LTE-TDD/UMTS/GSM/GPS/ GLONASS(Optional) network.

On LTE network, U9507E enables connect to the Internet at DL data speed up to 150Mbps and UL data speed up to 50Mbps, in the area where LTE service are not available, U9507E still enables reliable and secure data connect over 3G(UMTS) or 2G(GSM) network.

U9507E provides SMS, MMS, Phonebook functions as well as high speed access, and also audio function. It can be designed in many kinds of applications. Such as Data card, Video monitor, Tablet, Electric-book, MID, Vehicle equipment, etc.



U9507E



 LTE-TDD/LTE-FDD	 M2M application	 Laptop application
 Receive diversity	 Router application	 RoHS compliance
 AT Command	 USB 2.0 Interface	 Windows XP/Vista/7/8/10 Operating system
 Surveillance application	 UART Interface	 Linux operating system
 GPS/BDS		



U9507E

LTE-TDD/LTE-FDD Cellular Module

General features:

- EDGE multi-slot class 33
- GPRS multi-slot class 33
- Compliant to GSM phase 2/2+
- Output power:
 - Class 3 (0.25W) for LTE/UMTS
 - Class 4 (2 W) for GSM 900
 - Class 1 (1 W) for GSM 1800
- Control via AT commands (3GPP TS27.005/TS27.007, 3GPP2)
- Supply voltage range: 3.3V- 4.2V
- Low Power consumption
- Sleep mode: 3mA
- Power down: 16 μ A
- Dimensions: 31.0×30.0×2.4mm
- Operation Temperature -40°C to +85°C
- MSL: 3

Specifications for SMS:

- Point-to-point MO and MT
- SMS cell broadcast
- Text and PDU mode

Additional features:

- VoLTE
- Phone book
- PCM
- DTMF

Band Configuration:

U9507E:

- LTE-FDD Band 1/3/5/7/8/20/28
- LTE-TDD Band 38/40
- UMTS Band 1/5/8
- GSM Band 3/8

GNSS:

- GPS frequency: 1575.42MHz
- At least support 44 channels
- Sensitivity
 - Acquisition: -158dBm
 - Tracking: -162dBm
- TTFF
 - Cold Start: 28s
 - Warm Start: 18s
 - Hot Start: 1s

Protocols:

TCP/ UDP/ PPP/ FTP/ HTTP/ HTTPS/
SMTP*/ SMTSP*/ MMS/ FTPS*/ NTP/
PING/ QMI/ SSL/ NITZ/ CMUX/ MQTT*

Approvals:

- RoHS / CE / GCF / RCM / NCC

Specifications for data:

- Support Release 11 Category 4
- LTE-FDD up to 150 Mbps DL,50 Mbps UL
- LTE-TDD up to 130 Mbps DL,35 Mbps UL
- DC-HSPA+ up to 42.2Mbps DL,5.76Mbps UL
- EDGE class 33: 296Kbps DL,236.8Kbps UL
- GPRS class 33: 107kbps DL,85.6kbps UL
- CSD up to 14.4 kbps
- Non transparent mode
- PBCCH support
- PPP-stack
- Coding schemes CS 1,2,3,4
- FOTA
- TCP/IP
- NDIS

Interfaces:

RF connector
PCI Express® Mini Card Interface
- Power supply
- USB 2.0 high speed
- UICC/SIM/UIM card interface 3 V, 1.8 V
- UART
- Analog Audio
- PCM
Antenna connector

* Under Development