LTE-FDD/UMTS/GSM/GPS Cellular Module

U9507A is a new generation of Longsung LTE wireless module, rich of Internet protocols, and indstry-standard interfaces and abundant functionalities. It can be designed in many kinds of applications which can work on LTE-FDD/UMTS/GSM/GPS/GLONASS (Optional) network.

On LTE-FDD network, U9507A 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, U9507A still enables reliable and secure data connect over 3G(UMTS) or 2G(GSM) network.

U9507A 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.

U9507A

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		
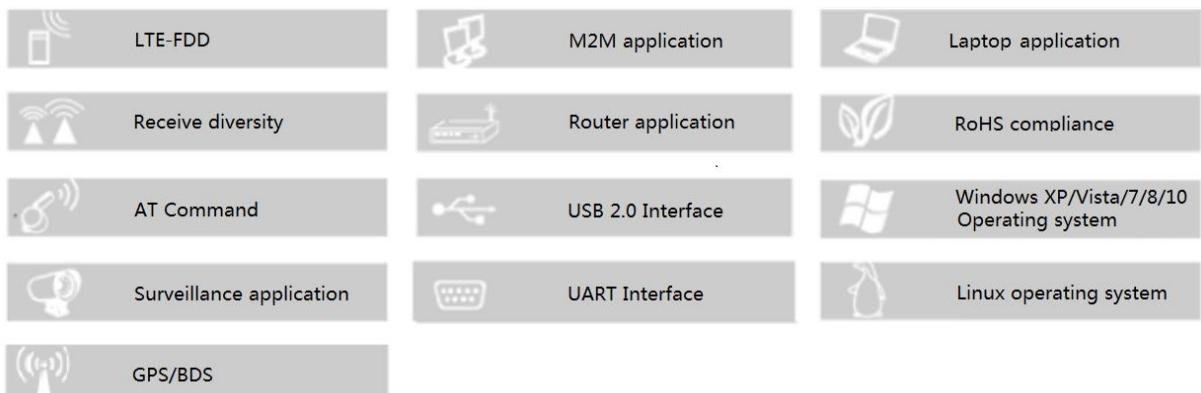
U9507A

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 850

- Class 1 (1 W) for GSM 1900

• Control via AT commands

  (3GPP TS27.005/3GPP TS27.007)

• Supply voltage range 3.3V- 4.2V

• Low Power consumption

- Sleep mode: 3mA

- Power down: 16 μA

• Dimensions: 31.0×30.0×2.4mm

• Operation Temperature

  -40°C to +85°C

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:

U9507A:

• LTE-FDD   Band 2/4/5/12/13/17/28

• UMTS   Band 2/4/5

• GSM   Band 2/5

Specifications for GPS:

• GPS frequency: 1575.42MHz

• At least support 44 channels

• Location accuracy: <10m

• Sensitivity

- Acquisition: -158dBm

- Tracking: -162dBm

• TTFF

- Cold Start: 28S

- Warm Start: 18S

- Hot Start: 1S

GLONASS(Optional):

• GLONASS frequency: 1601.7MHz

• At least support 44 channels

• Sensitivity

- Acquisition: -155dBm

- Tracking: -160dBm

• TTFF:

- Cold Start: 35s

- Warm Start: 29s

- Hot Start: 1s

Specifications for data:

• Support Release 11 Category 4

• LTE-FDD up to 150 Mbps DL,50 Mbps UL

• DC-HSPA+ up to 42Mbps 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

• Transparent mode

• PBCCH support

• PPP-stack

• Coding schemes CS 1,2,3,4

• FOTA

• TCP/IP

• NDIS

Interfaces:

- Power supply

- USB 2.0 high speed

- UICC/SIM/UIM card interface 3 V, 1.8 V

- UART

- PCM

- Antenna connector

- HSIC

Approvals:

• RoHS

• FCC

• PTCRB

Talk Straight   Accountable   Simplicity   Open-minded   Courageous