

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















U9507J-P (mPCIe) is a wireless module which is designed for the Japan market. It is a consumptive product; 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, U9507J-P 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, U9507J-P still enables reliable and secure data connect over 3G(UMTS) or 2G(GSM) network.

U9507J-P 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.



**U9507J-P**

 LTE-FDD / LTE-TDD	 M2M application	 PCI Express Mini Card Standard Interface
 Receive diversity	 Router application	 RoHS compliance
 AT Command	 USB 2.0 interface	 Windows XP/Vista/7/10 operating system
 Surveillance application	 UART interface	 Linux operating system
 Laptop application	 GPS	

# U9507J-P

## General features:

- EDGE multi-slot class 12
- GPRS multi-slot class 12
- Compliant to GSM phase 2/2+
- Output power:
  - Class 3 (0.25W) for LTE/UMTS
  - Class 4 (2 W) for GSM900
  - Class 1 (1 W) for GSM1800
- Control via AT commands  
(3GPP TS27.005/3GPP TS27.007 )
- Supply voltage range 3.3V- 4.2V
- Low Power consumption
  - Sleep mode: 5mA
  - Power down: 50  $\mu$ A
- Dimensions: 51.0x30.0x4.6mm
- 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 and analog Audio/DTMF

## Band Configuration:

U9507J-P:

- LTE-FDD Band 1/3/8/18/19/26/28
- LTE-TDD Band 38/40/41

## Specifications for GPS:

- GPS frequency: 1575.42MHz
- At least support 44 channels
- Location accuracy: <10m
  - Sensitivity: Acquisition: -158dBm
  - Tracking: -162dBm
  - TTFF:Cold Start: 60S,
  - Warm Start: 45S
  - Hot Start: 1S

## GLONASS(Optional):

- GLONASS frequency: 1601.7MHz
- At least support 44 channels
- Location accuracy: <10m
  - Sensitivity
    - Acquisition: -155dBm
    - Tracking: -160dBm
  - TTFF:
    - Cold Start: 60s
    - Warm Start: 45s
    - Hot Start: 1s

## Specifications for data:

- Support Release 9 Category 4
- LTE-FDD up to 150 Mbps DL,50 Mbps UL
- LTE-TDD up to 150 Mbps DL,50 Mbps UL
- DC-HSPA+ up to 42Mbps DL,5.76Mbps UL
- EDGE up to 237Kbps DL,118Kbps UL
- GPRS class 10: 85.6kbps 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:

- 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

## Approvals:

- RoHS/CE/GCF