


**HUAWEI**

# ME909u-521

For M2M application, Europe market

LGA Package

Quad-band EDGE/GPRS/GSM

Embedded TCP/IP Stack

LTE(FDD)  
B1/B2/B3/B5/B7/B8/B20

DL(100 Mbps)/UL(50 Mbps)

IPv6/IPv4

Quad-band  
DC-HSPA+/HSPA+/HSPA/UMTS

GPS, GLONASS

USSD, FOTA

PCM Voice

CE, FCC, GCF, RoHS Compliant

The ME909 family is high-quality designed LTE module in small size and Huawei standard LGA form factor which specially for industrial-grade M2M applications such as vehicle telematics, tracking, mobile payment, industrial router, safety monitor and industrial PDAs.

The ME909 family support 100Mbps downlink data rate, include enhanced features like FOTA, USSD, IPv6/IPv4 and Huawei enhanced AT commands.

There are three variants which meet different market requirements:

ME909u-521(B1/B2/B3/B5/B7/B8/B20), for European market.

ME909u-523(B2/B4/B5/B13/B17/B25/B26), for North America market.

ME909u-xxx(B1/B11/B18/B19/B21), for Japan market.

With Huawei standard LGA form factor, it is easy to migration from MU509 family, MC509 and MU609 to ME909 family.

All Huawei modules comply with the RoHS directive and Regional certification.

## General Features

- LTE FDD : B1/B2/B3/B5/B7/B8/B20
- DC-HSPA+/HSPA+/HSPA/UMTS:  
850/900/1900/2100MHz
- GSM/GPRS/EDGE: 1900/1800/900/850 MHz
- LTE DL 2\*2 MIMO
- DC-HSPA+/HSPA+ Receive diversity
- Transmit Power  
LTE: +23dBm (3GPP TS 36.101 R8 Class 3)  
UMTS: +24dBm (Power Class 3)  
EDGE 1900MHz/1800MHz: +26dBm (Power Class E2)  
EDGE 900M/850MHz: +27dBm (Power Class E2)  
GSM/GPRS 1900MHz/1800MHz:  
+30dBm (Power Class 1)
- GSM/GPRS 900M/850MHz: +33dBm (Power Class 4)
- AT commands  
3GPP TS 27.007 and 27.005  
Huawei extended AT command
- Power supply  
Normal: 3.2 V to 4.2V (typical: 3.8V)
- Temperature range: -30°C to 75°C
- Humidity: 5% - 95%
- Dimensions: 30 mm x 30 mm x 2.3 mm
- Weight: approx.5g
- USB driver for Linux/Android
- CDC-ECM

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## Voice

- PCM voice

## Data

- LTE UL (50 Mbps)/DL (100 Mbps) (CAT3)
- DC-HSPA+ :UL (5.76 Mbps)/DL (42 Mbps)
- WCDMA PS: UL (384 kbps)/ DL (384 kbps)
- EDGE: UL (236.8 kbps)/ DL (236.8 kbps)
- GPRS: UL (85.6 kbps)/ DL (85.6 kbps)

## SMS

- MO / MT PDU mode

## Additional features

- GPS: Standalone / A-GPS
- FOTA \*
- Firmware update via USB

## Supplementary Service

- Call forwarding / hold / waiting \*
- USSD \*

## Interfaces

- LGA 145 pins
- Antenna interface
- USB 2.0 High speed
- PCM Voice
- SIM Card (1.8/3.0V)
- GPIOs
- UART
- Power supply
- Reset

## Approvals & Certifications

- CE
- RoHS Compliant
- GCF

### Note:

Please refer to the latest version of Hardware Guide about the specifications. Huawei reserves the right to make changes or improvements to any to the products without prior notice.

