



# HUAWEI MU609

For High Speed M2M application

LGA Package

DL(14.4 Mbps)/UL(5.76 Mbps)

STK

Quad-band HSPA+/UMTS

GPS

FOTA

Quad-band EDGE/GPRS/GSM

PCM Voice

CE, CCC, GCF, PTCRB, FCC, RoHS Compliant

Embedded TCP/IP Stack

MU609 is high-quality designed HSPA 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.

Based on Huawei standard LGA technology, the MU609 module provide a smoothly path to Huawei HSPA+ or LTE high-speed modules.

MU609 supports 14.4Mbps downlink data rate, providing data and voice service under global GSM/GPRS/EDGE/WCDMA networks. The module also include enhanced features like embedded TCP/IP stack, FOTA, STK, and Huawei enhanced AT commands

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

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

## General Features

- UMTS/HSPA: 850/900/1900/2100MHz
- GSMGPRS/EDGE: 850/ 900/ 1800/ 1900 MHz
- Output Power
  - UMTS :+24dBm (Power Class 3)
  - EGSM850 Class 4 (2 W)
  - EGSM900 Class 4 (2 W)
  - GSM1800 Class 1 (1 W)
  - GSM1900 Class 1 (1 W)
- Sensitivity
  - GSM 850/900 MHz: -109 dBm
  - GSM 1800/1900 MHz: -107 dBm
  - WCDMA 850/900 MHz: -110 dBm
  - WCDMA 1900 MHz: -108 dBm
- WCDMA 2100 MHz: -109 dBm
- AT commands
  - 3GPP TS 27.007 and 27.005
  - Huawei extended AT command
- Power supply: 3.2 V to 4.2V (typical: 3.8V)
- Temperature range: -40°C to 85°C
- Humidity: 5% - 95%
- Dimensions: 30 mm x 30 mm x 2.2mm
- Weight: approx. 5g
- USB driver for Linux/Android

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## Voice

- DTMF support
- PCM voice support

## Data

- HSPA: UL 5.76 (Mbps)/ DL (14.4 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
- Text / PDU mode

## Additional Features

- FOTA \*
- GPS: Standalone, A-GPS
- STK (SIM Took Kit)
- Firmware update via USB/UART \*
- Embedded TCP/IP stack

## Supplementary Service

- Call forwarding / hold / waiting
- USSD

## Interfaces

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

## Approvals & Certifications

- |       |         |
|-------|---------|
| • CCC | • PTCRB |
| • CE  | • FCC   |
| • GCF | • RoHS  |

### Note:

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

