


HUAWEI

MU709 Mini PCIe


For M2M application


 LGA Package

 FOTA

 PCM voice

 HTTP/FTP

 Jamming Detection


 Netscan/
Network Monitoring

 Cell lock

 CMUX

 eCall

 SSL

 SMTP

 CCC, CE, GCF, FCC,
PTCRB, ROHS, WEEE

Huawei offers both mini PCIe and LGA (30 x 30 mm) form factors for all M2M module family, bringing more flexibility to customer design-in.

MU709 mini PCIe is a variant of MU709 with miniPCIe form factors. It is a Dual-band/Tri-band HSPA+ M2M module, with data speed downlink up to 21Mbps. It supports various features, such as HTTP, FTP, FOTA, Jamming Detection, Netscan, Cell lock, CMUX, eCall, etc. It is ideal for M2M industrial applications, e.g. Remote control & monitoring, 3G routers/ gateway, telematics, etc.

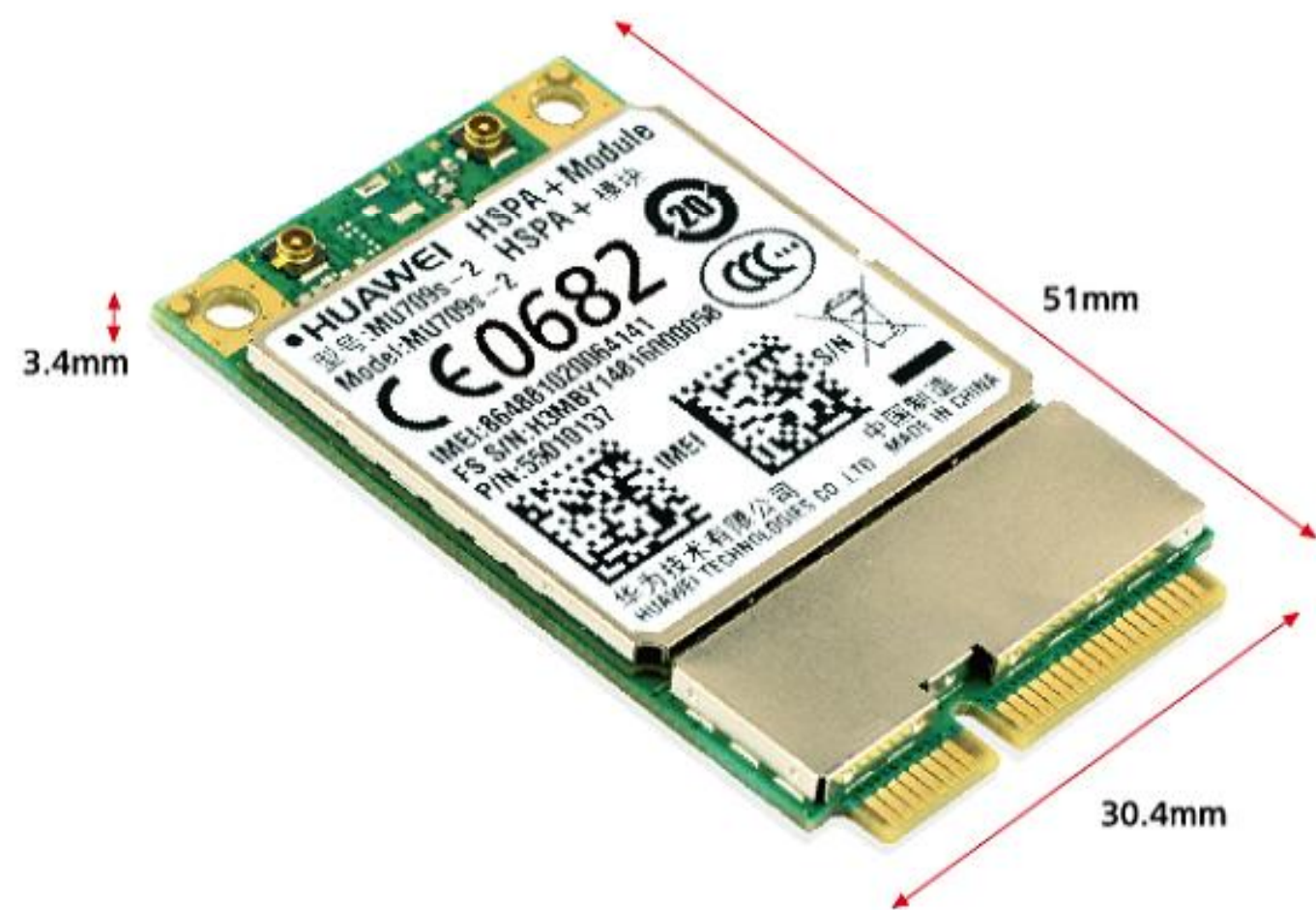
MU709 mini PCIe is compatible with MU609 mini PCIe and ME909 series, etc.

General Features

- UMTS/HSPA:
 - Dual-Band: 900/2100MHz
 - Tri-Band: 850/1900/2100MHz
- GSM/GPRS/EDGE: 850/ 900/ 1800/ 1900 MHz
- Output Power
 - UMTS: +24dBm (Power Class 3)
 - GSM850 Class 4 (2 W)
 - GSM900 Class 4 (2 W)
 - GSM1800 Class 1 (1 W)
 - GSM1900 Class 1 (1 W)
- Sensitivity
 - GSM 850/900 MHz: -110 dBm
 - GSM 1800/1900 MHz: -109 dBm
- WCDMA 900 MHz: -112 dBm
- WCDMA 2100 MHz: -111 dBm
- AT commands
 - 3GPP TS 27.007 and 27.005
 - Huawei extended AT command
- Power supply: 3.0 V to 3.6V (typical: 3.3V)
- Temperature range: -40°C to 70°C
- Humidity: 5% - 95%
- Dimensions: 30.4 mm x 51 mm x 3.4mm
- Weight: approx. 12g
- USB driver for Linux/Android

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Voice

- DTMF support
- PCM voice support
- Voice codec: AMR (all rates)

Data

- HSPA: UL 5.76 (Mbps)/ DL (21.6 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

- FTP/HTTP
- High Speed UART
- FOTA (Firmware Over The Air)
- Firmware update via USB/UART
- CDC-ECM support (Linux)
- Embedded TCP/IP stack
- Jamming Detection
- Netscan / Network Monitoring
- Cell lock
- CMUX

- eCall
- SSL
- SMTP

Supplementary Service

- Call forwarding / hold / waiting
- USSD

Interfaces

- 2 Antenna connectors
- PCIE interfaces
- USB 2.0 High speed
- PCM Voice
- SIM Interface (1.8V / 3.0V)
- Power supply
- Reset

Approvals & Certifications

- CCC
- FCC
- WEEE
- CE
- PTCRB
- 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 to the products without prior notice.



<http://consumer.huawei.com/m2m>