

FDD LTE/WCDMA

GM500_M.2

 M.2 Form Factor	 GPS & A-GPS	 Rx diversity
 LTE FDD	 WCDMA	 Auto suspend & remote wakeup
 LTE FDD: DL 150Mbps / UL 50Mbps	 -30°C ~ 75 °C	 USB 2.0 High Speed Compliant Interface
 Extended AT Command		

For M2M Applications

GM500 M.2 is designed to provide customers with global network coverage on the connectivity of LTE. It delivers 50Mbps-up and 150Mbps-down data rates on LTE FDD networks and can also be fully backward compatible with existing WCDMA networks.

The M.2 is a natural transition from the Mini Card and Half-Mini Card to a smaller form factor in both size and volume.

A rich set of internet protocols (PAP and CHAP used for PPP connections) and abundant functions (GPS/A-GPS, Remote wakeup, USSD, MMS, SMS) extend the applicability of the module to a wide range of M2M applications.

GM500 also allows the integration of automotive and other applications requiring assured extended operating temperature range and mechanical ruggedness within the ever-shrinking space inside electronic bays in trucks, automobiles, and other mobile platforms.



Note: picture is just for reference.

Welink Your Smart.

General Features

- ❑ M.2 Card
- ❑ Dimensions: 31mm×42mm×3.20 mm
- ❑ Frequency Band :
 - LTE FDD:B2,B4,B5,B12
 - WCDMA:B2,B5
- ❑ GPS & A-GPS

Electrical & Sensitivity

- ❑ Transmit Power:
 - LTE: +23dBm +2.7/-2.7dB (Power Class 3)
 - WCDMA : 24 +1/-3dBm (Power Class 3)
- ❑ Receiving sensitivity:
 - Rx Diversity
- ❑ Power Supply :
 - 3.4V~4.2V (3.8V is recommended)

Interfaces

- ❑ USB 2.0 High speed (480 Mbps)
- ❑ SIM interface (1.8/3.0V)
- ❑ Antenna (RF connector for Primary, Diversity and GPS)
- ❑ LED indication
- ❑ WAKE_WWAN# & W_DISABLE# & SIM DETECT
- ❑ FULL_CARD_POWER_OFF# and Reset

Data Features

- ❑ LTE FDD (CAT4)
 - Uplink 50Mbps / Downlink 150 Mbps
- ❑ WCDMA
 - Uplink 5.76Mbps / Downlink 42Mbps
 - Uplink 2.2Mbps / Downlink 2.8Mbps

SMS Features

- ❑ Support Text and PDU mode
- ❑ Point to point MO and MT
- ❑ SMS Status Report
- ❑ SMS centre address setting
- ❑ Management of SMS

Applications

- ❑ Support embedded TCP & UDP protocols
- ❑ Support protocols PAP and CHAP used for PPP connection
- ❑ SMS & MMS & Phonebook
- ❑ USB Selective Suspend & Remote wakeup
- ❑ RAS /ECM/NDIS
- ❑ Control Via AT Commands according to 3GPP TS27.005, 27.007 and GOSUNCN extended AT commands

Driver & Tools

- ❑ Drivers
 - Windows XP, Vista, 7 , 8, 10
 - Linux, Android
- ❑ Diag-log Tool
- ❑ Firmware Update Tool

Environmental

- ❑ Operation temperature: -30° C to +75° C
 - Extreme Operating temperature: -40° C to +85° C
- ❑ Storage temperature: -40° C to +85° C
- ❑ Humidity: 5%~ 95%