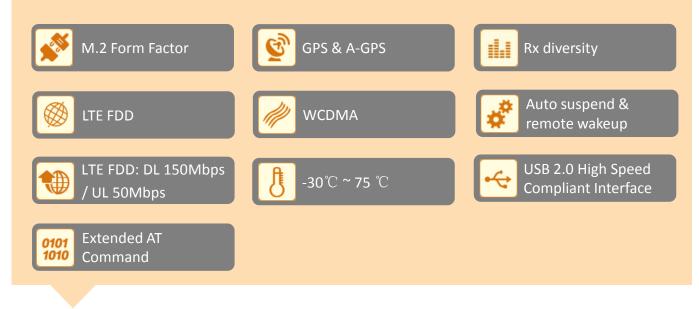


FDD LTE/WCDMA

GM500_M.2



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.



Welink Your Smart.

GM500_M.2

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

- **D** Operation temperature: -30° C to $+75^{\circ}$ C
 - Extreme Operating temperature: -40 $^{\circ}\,$ C to +85 $^{\circ}\,$ C
- \blacksquare Storage temperature: -40 $^{\circ}\,$ C to +85 $^{\circ}\,$ C
- □ Humidity: 5%~ 95%