

FDD LTE/WCDMA/GSM Module

ME3630_M.2

 M.2 Form Factor	 GPS & A-GPS	 Rx diversity
 LTE FDD	 WCDMA	 GSM
 LTE FDD: DL 100Mbps / UL 50Mbps	 -30°C ~ 75 °C	 USB 2.0 High Speed Compliant Interface
 0101 1010 Extended AT Command	 Auto suspend & remote wakeup	

For M2M Applications

ME3630 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 and GSM 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.

ME3630 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.

General Features

- M.2 Card
- Dimensions: 31mm × 42mm × 3.20 mm
- Frequency Band :
 - LTE FDD/WCDMA/GSM
- GPS & A-GPS

Electrical & Sensitivity

- Transmit Power:
 - LTE: +23dBm +2.7/-2.7dB (Power Class 3)
 - WCDMA : 24 +1/-3dBm (Power Class 3)
 - GSM900: 33 ± 2dBm (Power Class 4)
 - GSM1800: 30 ± 2dBm (Power Class 1)
- 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

ME3630 M.2 Serials

PID	Band
E1C	LTE FDD: B1, B3, B7, B8, B20 WCDMA: B1, B8 GSM: B3, B8
U1A	LTE FDD: B2, B4, B5, B12 WCDMA: B2, B5
J2A	LTE FDD: B1, B3, B5, B7, B8, B18, B19, B21 WCDMA: B1, B5, B6, B8, B19
C2B	LTE FDD: B1, B3, B5, B8 LTE TDD: B38, B39, B40, B41 WCDMA: B1, B5, B8 TD SCDMA: B34, B39 GSM: B3, B8 CDMA EVDO/ 1x: 800M

Data Features

- LTE FDD (CAT4)
 - Uplink 50Mbps / Downlink 150 Mbps
- WCDMA
 - Uplink 5.76Mbps / Downlink 42Mbps
 - Uplink 2.2Mbps / Downlink 2.8Mbps
- EDGE (Multi-slot Class 12)
 - Uplink 236.8 kbps / Downlink 236.8 kbps
- GPRS (Multi-slot Class 10)
 - Uplink 85.6 kbps / Downlink 85.6 kbps

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%