

LTE/TD-SCDMA/WCDMA/CDMA/GSM Module

ME3630_M.2



M.2 Form Factor



GNSS& A-GPS



Rx diversity



LTE-FDD/LTE-TDD



WCDMA



GSM



LTE FDD: DL 150Mbps
/ UL 50Mbps



-30°C ~ 75 °C



USB 2.0 High Speed
Compliant Interface



Extended AT
Command



Auto suspend &
remote wakeup



Multi-Embedded
Protocols

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 module is module with M.2 form factor, optimized for eMBB and IoT applications.

A rich set of embedded protocols (TCP/UDP, FTP, HTTP/HTTPS, SSL, MQTT, etc.)and abundant functions (GNSS, Remote wakeup, SMS, USB drivers for win, Linux, Android) extend the applicability of the module to a wide range of M2M applications, such as industrial router, home gateway, STB, industrial laptop, consumer laptop, industrial PDA, rugged tablet PC, video surveillance and digital signage, etc.



General Features

- M.2 Card
- Dimensions: 31mm×42mm×3.20 mm
- Frequency Band :
 - LTE/TD-SCDMA/WCDMA/CDMA/GSM Module
- GNSS & A-GPS

Electrical & Sensitivity

- Transmit Power:
 - LTE: +23dBm +2.7/-2.7dB (Power Class 3)
 - WCDMA : 24 +1/-3dBm (Power Class 3)
 - TD-SCDMA : 24 +1/-3dBm
 - GSM900: 33±2dBm (Power Class 4)
 - GSM1800: 30±2dBm (Power Class 1)
 - CDMA:24 ±1dBm @ All up bits
- 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	Rx Diversity	GNSS
ME3630_E1C	LTE FDD: B1, B3,B7,B8,B20		
	WCDMA: B1,B8	Yes	Yes
	GSM: B3, B8		
ME3630_J2A	LTE FDD: B1, B3,B5,B7,B8, B18,B19,B21	Yes	Yes
	WCDMA: B1, B5, B6, B8, B19		
ME3630_A1C	LTE B1,B2,B3,B5,B7, B8,B28,B40	Yes	Yes
	WCDMA B1,B2,B5,B8		
	GSM quad-band		
ME3630_C3C	LTE FDD: B1,B3,B5,B8		
	LTE TDD: B38, B39, B40, B41		
	WCDMA: B1,B5,B8	Yes	Yes
	TD SCDMA: B34, B39		
	GSM: B3, B8		
ME3630_C4B	CDMA EVDO/ 1x: 800M		
	LTE FDD B1, B3,B5,B8		
	LTE TDD B34,B38, B39, B40, B41	No	No
ME3630_C4C	WCDMA B1,B8		
	GSM B3, B8	Yes	No

Data Features

- LTE FDD (Cat 4)
 - Uplink 50Mbps / Downlink 150 Mbps
- LTE-TDD
 - Uplink30Mbps / Downlink 112Mbps
- 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
- CDMA2000 EVDO
 - Uplink 1.8Mbps / Downlink 3.1Mbps
- CDMA2000 1X
 - Uplink 153.6 kbps / Downlink 153.6 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&FTP&HTTP&MQTT&FILE&SSL protocols
- Support protocols PAP and CHAP used for PPP connection
- SMS & MMS
- USB Selective Suspend & Remote wakeup
- RAS /ECM/NDIS
- Control Via AT Commands according to 3GPP TS27.005, 27.007 and GOSUNCN extended AT commands
- FOTA

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%