ZTE Welink

LTE/TD SCDMA/WCDMA/GSM Module

ME3620

For M2M Applications

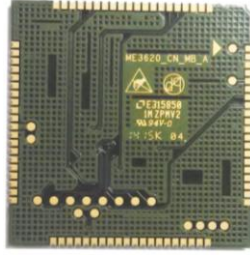|		
LCC Form Factor	GPS & A-GPS & LBS	Rx diversity
LTE FDD & LTE TDD	TD SCDMA & WCDMA	GSM
LTE FDD: DL100Mbps / UL 50Mbps	8-wires Industry UART	USB 2.0 High Speed Compliant Interface
PCM	ZTE Extended AT Command	Auto suspend & remote wakeup
Ecall	Embed TCP/IP	-30℃ ~ 75 ℃

ME3620 is designed to provide customers with global network coverage on the connectivity of LTE. It delivers 50Mbp-up and 100Mbps-down data rates on LTE FDD networks and can also be fully backward compatible with existing WCDMA and GSMnetworks.

Rx diversity which allows the end-device to be equipped with two distinct cellular antennas improving the quality and reliability of the wireless connectivity.

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

ME3620 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.

ME3620

ME3620 Serials

No.	PID	Band	Rx Diversity
1	C1A	GSM: B3, B8 WCDMA: B1, B8 TD SCDMA: B34, B39 LTE FDD: B1, B3, B7, B8 LTE TDD: B38, B39, B40, B41	WCDMA: B1, B8 LTE FDD: B1, B3, B7, B8 LTE TDD: B38, B39, B40, B41
2	J1A	WCDMA: B1, B5(B6), B8 LTE FDD: B1, B3, B26(B5, B19), B8, B18	WCDMA: B1, B5(B6), B8 LTE FDD: B1, B3, B26(B5，B19), B8, B18

General Features

- ☐ LCC Form Factor (80 pins)
- ☐ Dimensions: 30mm $\times$ 30mm$\times$ 2.3mm
- ☐ Weight: About 4.0g
- ☐ Supply voltage range 3.4V-4.2V (3.8V is recommended)

Electrical & Sensitivity

- ☐ Transmit Power:
    - WCDMA Bands: 24 +1/-3dBm (Power Class 3)
    - GSM Band 8: 33±2dBm (Power Class 4)
    - GSM Band 3: 30±2dBm (Power Class 1)
    - LTE FDD: +23dBm +2.7/-2.7dB (Power Class 3)
- ☐ Receiving sensitivity:
    - WCDMA Band 1: ≤-106.7 dBm
    - WCDMA Band 5: ≤-104.7 dBm
    - WCDMA Band 8: ≤-103.7 dBm
    - GSM Band 3/ Band 8: ≤-102dBm
    - LTE Band 1: ≤-94dBm(20 MHz)
    - LTE Band 8: ≤-94dBm(10 MHz)
    - LTE Band 5: ≤-95dBm(10 MHz)

Environmental

- ☐ Operation temperature: -30°C to +75°C
- ☐ Extreme Operating temperature : -40°C to +85°C
- ☐ Storage temperature: -40°C to +85°C

Data Features

- ☐ GSM CS: UL 9.6kbps/DL 9.6kbps
- ☐ WCDMA CS: UL 64kbps/DL 64kbps
- ☐ WCDMA PS: UL 384 kbps /DL 384 kbps
- ☐ LTE FDD: DL 100Mbps / UL 50Mbps (Category 3)

SMS Features

- ☐ Support Text and PDU mode
- ☐ Point to point MO and MT
- ☐ SMS Status Report SMS centre address setting
- ☐ Management of SMS: read, write, send, receive, delete, storage status, SMS list, new SMS alert

Interfaces

- ☐ USB 2.0 High speed interface up to 480 Mbps
- ☐ SIM card interface (1.8/3.0V DC)
- ☐ 1 $\times$ UARTs (8-wires, CMUX, Adaptive baud rate)
- ☐ SPI & I2C& SD & ADC Interface
- ☐ Antenna (RF PAD for Primary, Diversity and GPS)
- ☐ LED interface
- ☐ PCM interfaces (Optional)
- ☐ Reset & Power-on/off

Applications

- ☐ GPS/A-GPS/LBS
- ☐ SMS & MMS & Phonebook
- ☐ Ecall
- ☐ TTS & DTMF & VoLTE (Optional)
- ☐ USSD & STK
- ☐ Improved power-saving mode
- ☐ USB Selective Suspend & Remote wakeup
- ☐ RAS /NDIS
- ☐ Embedded TCP/IP protocol
- ☐ 2 Reset ways: AT command & hardware reset pin
- ☐ Support protocols PAP and CHAP used for PPP connection
- ☐ Control Via AT Commands according to 3GPP TS27.005, 27.007 and ZTEWelink extended AT commands

Driver & Tools

- ☐ USB drivers for Windows XP, Windows Vista, Windows 7 & 8, Windows CE, Windows Mobile, Linux, Android
- ☐ Diag-log Tool for Windows, Android, Linux
- ☐ Firmware Update

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