ZTE Welink

LTE/HSPA+/WCDMA/GSM Module

ZM8620

For M2M Applications

- Mini PCI Express Form Factor
- GPS & A-GPS & LBS
- Rx diversity
- LTE FDD &LTE TDD
- Quad-band GSM/ GPRS/EDGE
- USB 2.0 High Speed Compliant Interface
- LTE TDD: DL 50Mbps / UL 25Mbps
- UMTS 850/900/2100 /1900/(1700)MHz
- 8-wires Industry UART
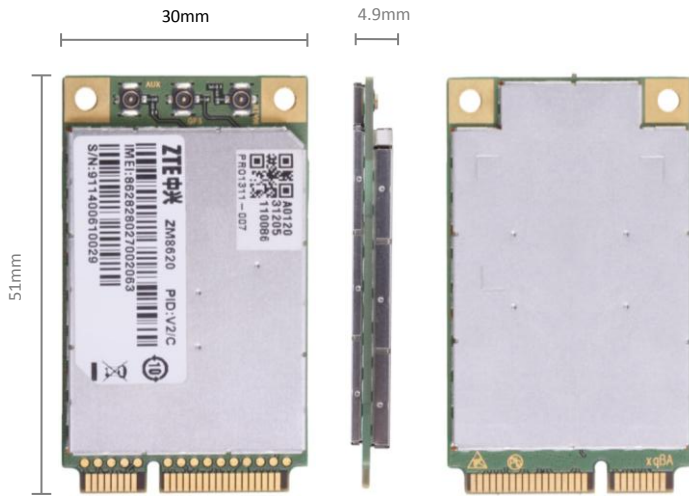- LTE FDD: DL100Mbps / UL 50Mbps
- ZTE Extended AT Command
- -30℃ ~ 75 ℃

ZM8620 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 GSM/GPRS networks.

The mini PCIE form factor of ZM8620 has become a popular standard adopted by connected device manufacturers to easily integrate wireless connectivity into their devices for commercial and industrial computer markets.

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/LBS, USSD, Band Lock, Open RIL code, MMS, SMS) extend the applicability of the module to a wide range of M2M applications such as metering, tracking systems, security solutions, routers, wireless POS, mobile computing devices, PDAs, tablet PC and so on.

Welink Your Smart.

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ZM8620

30mm **4.9mm**

51mm

Data Features

- ☐ LTE FDD
  - – Uplink 50Mbps / Downlink 100 Mbps
- ☐ TD-LTE
  - – Uplink18Mbps / Downlink 61Mbps
- ☐ WCDMA
  - – Uplink 5.76Mbps / Downlink 42Mbps
- ☐ 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

General Features

- ☐ PCI Express Mini-Card
- ☐ Dimensions: 51 mm x 30 mm x 4.9 mm
- ☐ Weight: approx. 11.9 grams

Interfaces

- ☐ USB 2.0 High speed (480 Mbps)
- ☐ UART (8-wires)
- ☐ SIM interface (1.8/3.0V)
- ☐ SPI
- ☐ Antenna (RF Connector for Primary, Diversity and GPS)
- ☐ LED Indication
- ☐ Reset & Wake & W-Disable

Electrical & Sensitivity

- ☐ Transmit Power:
  - – LTE FDD : +23dBm +2.7/-2.7dB (Power Class 3)
  - – TD-LTE : +23dBm +2.7/-2.7dB (Power Class 3)
  - – WCDMA : 24 +1/-3dBm (Power Class 3)
  - – GSM/GPRS 850/900: 33±2dBm (Power Class 4)
  - – GSM/GPRS 1800/1900: 30±2dBm (Power Class 1)
- ☐ Rx Diversity
- ☐ Power Supply
  - – 3.1V-3.6V (3.3V is recommended)
- ☐ Power Consumption
  - – Call: 714mA (LTE FDD max. power) (Typical)
  - – Call: 597mA(WCDMA max. power) (Typical)
  - – Call: 384mA(GSM max. power) (Typical)

Applications

- ☐ GPS/A-GPS/LBS
- ☐ SMS & MMS & SIM Phonebook
- ☐ Open RIL code
- ☐ USSD
- ☐ USB Selective Suspend & Remote wakeup
- ☐ RAS /ECM/NDIS
- ☐ 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

ZM8620 Serials

No.	PID	Band
1	V2/C	UMTS Band:2100/1900/1700/850/900MHz GSM Band: 1900/1800/900/850MHz LTE FDD 2100/1900/1700/850/900/2600/700 MHz; LTE TDD: Band 38
2	V2/D	WCDMA/HSDPA 2100/1900/850/900MHz GSM/GPRS/EDGE 850/900/1800/1900MHz LTE FDD 2100/1800/900/2600/800 MHz; LTE TDD: Band 40

Driver & Tools

- ☐ Drivers
  - – Windows XP, Vista, 7 , 8, Win CE, Windows Mobile
  - – Linux
  - – Android
- ☐ Diag-log Tool for Windows, Android, Linux
- ☐ Firmware Update Tool

Approvals & Certifications

- ☐ CE
- ☐ FCC
- ☐ PTCRB

Environmental

- ☐ Operation temperature: -30°C to +75°C
- ☐ Storage temperature: -40°C to +90°C
- ☐ Humidity: 5%~ 95%

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