

## 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°C ~ 75 °C

**ZM8620** is designed to provide customers with global network coverage on the connectivity of LTE. It delivers 50Mbps-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.

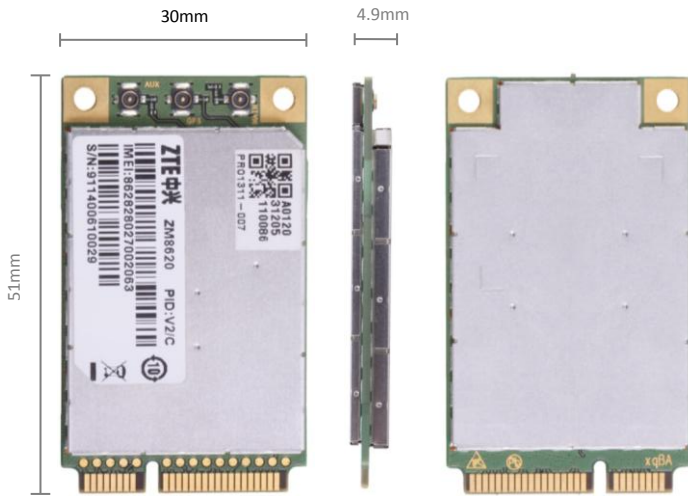
Rx diversity which allows the end-device to be equipped with two distinct cellular antennas improving the quality and reliability of the wireless connectivity.

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.



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Welink Your Smart.



## General Features

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

## 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)

## 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
		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
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

## Environmental

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

## 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

## 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

## 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 ZTEWLink extended AT commands

## 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



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