

For M2M Applications



PCIE Form Factor



WCDMA/HSDPA



EDGE/GPRS/GSM



Auto suspend & remote wakeup



RAS



-30 °C ~ 75 °C



ZTE Extended AT Command



8-wires Industry UART



USB 2.0 High Speed Interface



HSDPA: DL 3.6Mbps



Embed TCP/UDP



Pin to pin with PCIE

For M2M Applications

MW3650-PCIE is designed to provide customers with global network coverage on the connectivity of WCDMA. It can also be fully backward compatible to existing EDGE and GSM/GPRS networks.

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

MW3650-PCIE can be widely used in M2M industries such as smart meter, Security and monitor, Industrial router, DTU, CPE, Telematics etc. It 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.





General Features

- ❑ PCIe Form Factor
- ❑ Dimensions: 51mm × 31mm × 4.5mm
- ❑ Weight: About 10.0g

Electrical & Sensitivity

- ❑ Transmit Power:
 - WCDMA Bands: 24 +2.5/-1.5dBm (Power Class 3)
 - GSM/GPRS 850/900: 33+ 2.5/-1dBm (Power Class 4)
 - GSM/GPRS 1800/1900: 30+2.5/-1dBm (Power Class 1)
 - EDGE 850/900: +27+4.5/-1.5dBm (Power Class E2)
 - EDGE 1800/1900: +26+4.5/-2.5dBm (Power Class E2)
- ❑ Receiving sensitivity:
 - GSM 850/900/1800/1900: ≤ -107 dBm
 - WCDMA2100: ≤ -108 dBm
 - WCDMA1900/900/850: ≤ -109 dBm
- ❑ Power Supply:
 - 3.0V-4.0V (3.3V is recommended)
- ❑ Power Consumption:
 - Sleep : 5mA@WCDMA(Typical)
 - Call : 540 @ WCDMA, Max. Power (Typical)
 - Call : 240mA @ GSM, Max. Power (Typical)

Environmental

- ❑ Operation temperature: -30° C to +75° C
 - Extreme Operating temperature : -40° C to +80° C
- ❑ Storage temperature: -40° C to +85° C

MW3650-PCIE Serials

No.	PID	Band
1	V1A-MP0	GSM: 850/1900MHz; WCDMA: 850/1900MHz
	V1A-MP1	
2	V1B-MP0	GSM: 900/1800MHz; WCDMA: 900/2100MHz
	V1B-MP1	

Data Features

- ❑ WCDMA
 - Uplink 384 kbps / Downlink 3.6Mbps
- ❑ GPRS(Multi-slot Class 10)
 - Uplink 85.6 kbps/Downlink 85.6 kbps
- ❑ EDGE(Multi-slot Class 12)
 - Uplink 236.8 kbps/Downlink: 236.8 Kbps

SMS Features

- ❑ Support Text and PDU mode
- ❑ Point to point MO and MT
- ❑ SMS Status Report
- ❑ Management of SMS

Interfaces

- ❑ USB 2.0 High speed (480Mbps)
- ❑ SIM Interface(1.8/3.0V DC)
- ❑ UART (8-wires)
- ❑ Antenna (RF PAD for Primary)
- ❑ LED Indication
- ❑ Reset & Power-on

Applications

- ❑ Support embedded TCP & UDP protocol
- ❑ Support protocols PAP and CHAP used for PPP connection
- ❑ SMS & MMS & Phonebook
- ❑ USSD & STK
- ❑ CMUX
- ❑ USB Selective Suspend & Remote wakeup
- ❑ RAS
- ❑ Control Via AT Commands according to 3GPP TS27.005, 27.007 and ZTEWelink extended AT commands

Driver & Tools

- ❑ Drivers
 - Windows XP, Vista, 7 , Win CE, Windows Mobile
 - Linux
 - Android
- ❑ Diag-log Tool
- ❑ Firmware Update Tool

Notes: The pictures are just for reference