ZTE AX226 WiMAX USB MODEM

USER MANUAL

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TABLE OF CONTENTS

1. Introduction 5

1.1 Welcome to ZTE AX226 WiMAX USB MODEM 5

1.2 Safety Warning and Notice 5

To the user 5

Modem 7

In Aircraft 7

1.3 Cleaning and Maintenance 7

1.4 Limited Warranty 8

1.5 Limitation of Liability 9

1.6 Functions 9

1.7 Specification 9

1.8 Appearance 10

1.9 Working Condition 10

2. Installing and Uninstalling the Modem 11

2.1 System Requirements 11

2.2 Inserting the Modem 11

2.3 Installing the Modem Connection Manager 12

2.4 Removing the Modem Safely 15

2.5 Uninstalling the Modem Connection Manager 16

3. Update and change UI language 18

3.1 Updating the Modem Connection Manager 18

3.2 Change UI language 18

4. Modem Connection Manager Interface 20

4.1 Connection Status 21

4.2 WiMAX Signal Strength 24

5. Modem Connection Manager Settings 25
5.1 Manual Authentication Setting 25
5.2 Options 25
5.2.1 Connect Settings 25
5.2.2 Network Selection 26
5.2.3 General Info 27
6. Data Records 28
7. FAQs 29

1. Introduction

1.1 Welcome to ZTE AX226 WiMAX USB MODEM

Thank you for choosing ZTE AX226 WiMAX USB MODEM (hereinafter referred to as **Modem**).

It is next generation mobile broadband that's designed to work as fast around town as it does at home. With Modem, you'll connect to the Internet without long-term contracts or complications. You can surf the Internet and enjoy anything with it, along with you anywhere Modem has coverage.

Getting started with Modem is simple: no wires means no service calls. Just install the Modem Connection Manager software, connect your Modem to your computer, activate your Modem service.

To guarantee your Modem always in its best condition, please read this manual carefully and keep it for future use.

The pictures, symbols and contents in this manual are just for your reference. They might not be completely identical with your Modem. Please subject to the real object. ZTE operates a policy of continuous development and reserves the right to update and modify the technical specifications in this document at any time without prior notice.

1.2 Safety Warning and Notice

To the user

- Some electronic devices are susceptible to electromagnetic interference sent by Modem if inadequately shielded, such as electronic system of vehicles. Please consult the manufacturer of

the device before using the Modem if necessary.

- Operating laptop and Modem may interfere with medical devices like hearing aids and pacemakers. Please always keep the Modem more than 20 centimeters away from such medical devices when they are in using. Power off Modem if it is necessary. Consult a physician or the manufacturer of the medical device before using the Modem.
- Be aware of the usage limitation when using a Modem at places such as oil warehouses or chemical factories, where there are explosive gases or explosive products being processed. Do not use Modem if necessary.
- Do not use Modem at gas station.
- The Modem contains sensitive electronic circuitry. Do not expose the Modem to any liquids, high temperatures or shock.
- Store the Modem out of the reach of small children. The Modem may cause injury if used as a toy.
- Only use original accessories or accessories that are authorized by the manufacturer. Using unauthorized accessories may affect your Modem's performance, damage your Modem and violate related national regulations.
- There are no user serviceable parts inside the Modem. Unauthorized dismantling or repair of the Modem will void the warranty.
- This Modem generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

Modem

- Avoid using the Modem near metallic structure device or establishment that can emit electromagnet wave. Otherwise it may influence receiving of signals.
- Don't use the Modem immediately after a sudden temperature change e.g. from an air conditioned environment to high temperature and humidity outside. In such cases there could be condensing moisture inside the Modem which can cause internal damage. Unplug the Modem and leave it for 30 minutes before use.
- Take the Modem carefully. Don't drop, bend, knock or harshly treat it to avoid destructive damage.
- Do not attempt to disassemble the Modem by yourself. Changes and modifications made to the Modem without the approval of manufacturer could void your authority to operate this Modem.

In Aircraft

- Please power off the Modem before the airplane takes off. In order to protect airplane's communication system from interference, it is never allowed to use the Modem when it is in flight. Using it before the airplane taking off should get aircrew's permission according to safety regulations.

1.3 Cleaning and Maintenance

- The Modem is non-waterproof, please keep it dry and store in shady and cool place.

- Do not use or store the device in dusty or dirty areas, since its moving parts and electronic components can be damaged in such environment.
- If you want to clean your Modem, please use clean fabric that is a bit wet or anti-static. Do not use harsh chemical cleaning solvents or strong detergents to clean your Modem, such as alcohol, dilution agent and benzene. Power-off your Modem before you clean it.

1.4 Limited Warranty

The warranty does not apply to defects or errors in the product caused by:

(a) Reasonable abrasion.

(b) Misuse including mishandling, physical damage, improper installation, unauthorized disassembly of the product.

(c) Water or any other liquid damage.

(d) Any unauthorized repair or modification.

(e) Power surges, lightning damage, fire, flood or other events outside ZTE's reasonable control.

(f) Use of the product with any unauthorized third party products such as generic chargers.

(g) Any other cause beyond the range of normal usage for products.

End User shall have no right to reject, return, or receive a refund for any product from ZTE under the above-mentioned situations.

This warranty is end user's sole remedy and ZTE's sole liability for defective or nonconforming items, and is in lieu of all other warranties, expressed, implied or statutory, including but not limited to the im-

plied warranties of merchantability and fitness for a particular purpose, unless otherwise required under the mandatory provisions of the law.

1.5 Limitation of Liability

ZTE shall not be liable for any loss of profits or indirect, special, incidental or consequential damages resulting from or arising out of or in connection with using this product, whether or not ZTE had been advised, knew or should have known the possibility of such damages.

1.6 Functions

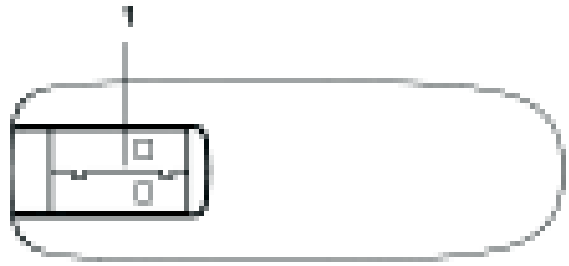
Functions: Data service, Connection management, etc.

1.7 Specification

Mode of Access	WiMAX (Worldwide Interoperability for Microwave Access)
WiMAX Protocol	802.16e (IEEE 802.16-2005)
Frequency Allocation	2300-2400MHz, 2496-2690MHz
Dimension (WxDxH)	76mm x 25mm x 11.3mm
Weight	About 50 g

1.8 Appearance

1. USB Connector



1.9 Working Condition

Working temperature:	-10°C ~ +55°C [14°F ~ 131°F]
Working humidity:	5% ~ 95%
Storage temperature:	-40°C ~ +70°C [-40°F ~ 158°F]
Storage humidity:	5% ~ 90%

2. Installing and Uninstalling the Modem

2.1 System Requirements

The system requirements provided here reflect only the standards required to install and run Modem Connection Manager. Please see your Modem support documentation for additional specifications.

- Operating System: Windows XP (service pack 2 or 3) or Windows Vista (service pack 1) or Windows 7.
- Ports: One available USB port.
- System Configuration:

  Processor: 466 MHz or higher (1 GHz or higher recommended).

  Hard Disk: 50 MB available disk space required.

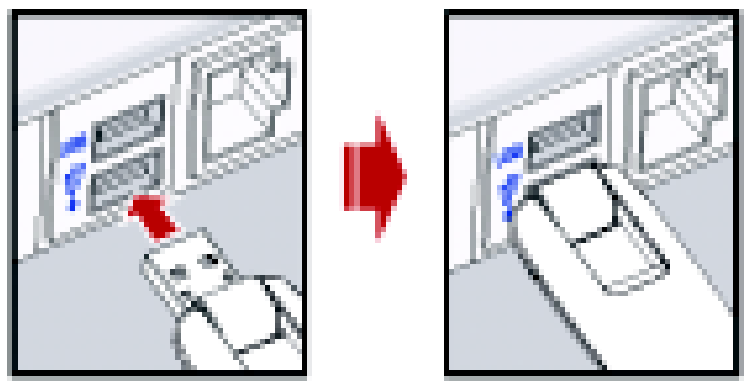
  RAM: 256 MB minimum (512 MB or higher recommended).

  Storage: 50 MB available disk drive space (100 MB or more recommended).

2.2 Inserting the Modem

Insert the Modem as shown below:

Rotate the USB connector and plug the USB connector into your computer's USB port. Make sure that it is tightly inserted.



When you insert the Modem into a computer for the first time, your system will detect the new hardware automatically.

2.3 Installing the Modem Connection Manager

Modem Connection Manager has the following features:

- Modem Connection Manager does not manage connections for any other wireless connection cards including those designed to operate on the major cellular networks.
- To connect using another type of connection card, exit Modem Connection Manager from the system tray and then launch another connection manager program.
- To return to WiMAX service of Modem, turn off the other connection manager program and then launch Modem Connection Manager.

The following snapshots show customers how to install driver and ZTE CM for the Modem on Windows XP Operating System.

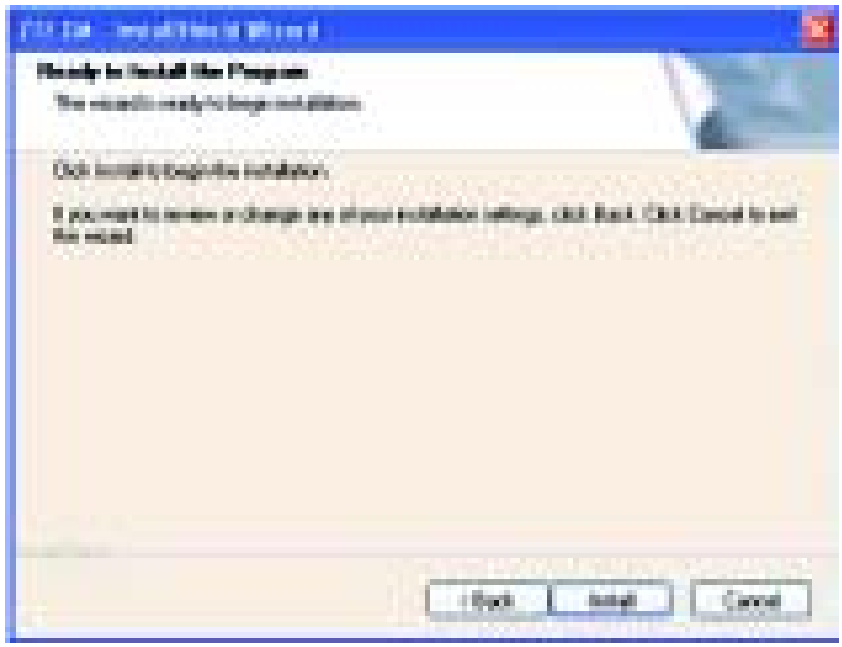
Note: Please make sure that you have uninstalled the previous versions.

1) When you insert the Modem into your computer for the first time, the below window should appear automatically. Select the language and wait for the welcome window for ZTE CM, please click **Next** button.

Note: Some antivirus software and firewall software will prevent the CD-ROM Autorun. If the below screen does not appear automatically, you need to check the configuration of your computer and make sure that the CD Self-start function is turned on. If this question still exist, you can click My Computer and start the installation program by run the *.exe from the ZTE_WiMAX_MODEM.

2) Click **Change** button to select destination folder and click **Next** button to go on.

3) Click **Install** button to begin installation.



4) Install in progress.

5) Click **Finish** button to finish installation.

After the installation, the installation software will create a shortcut icon on the desktop, and **ZTE CM** and **Uninstall ZTE CM** program groups in the computer **Start > Programs > ZTE CM** menu.

2.4 Removing the Modem Safely

To remove your Modem from the computer safety, please make sure that the ZTE CM application has been closed. Please use the safe removal of hardware procedure. Improper operation will make the software drivers locked or corrupted.

Close the software application by clicking the close button then click **OK** to confirm.

Safely remove the Modem

- E.g. in Windows XP, left click the icon on the Windows tray.
- Click on Safely Remove Hardware to shut down the drivers safely.

- Remove the Modem.

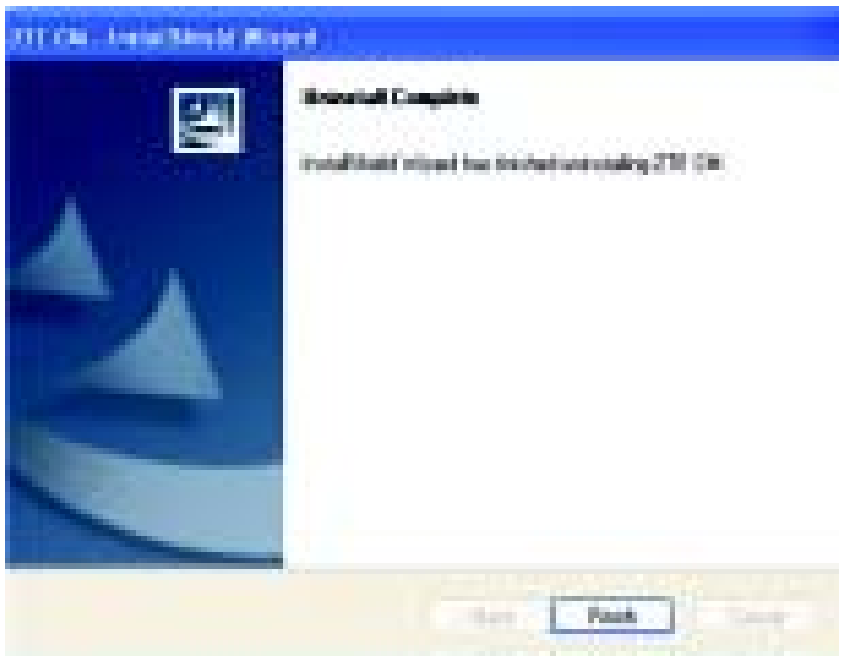
2.5 Uninstalling the Modem Connection Manager

Make sure Modem Connection Manager is closed.

Right click on the Modem Connection Manager icon ( ) in the system try. Select **Exit**. Click **OK** to confirm that you want to exit Connection Manager.

Click ***Start > (All) Programs >ZTE CM> Uninstall ZTE CM.***
Or Click ***Start > Control Panel > Add or Remove Programs***, highlight ***ZTE CM***, and click ***Remove***.

Click **Yes** to confirm that you want to uninstall Modem Connection Manager. After uninstalling, click **Finish** to complete.



After the uninstalling, the shortcut icon on the desktop will disappear.

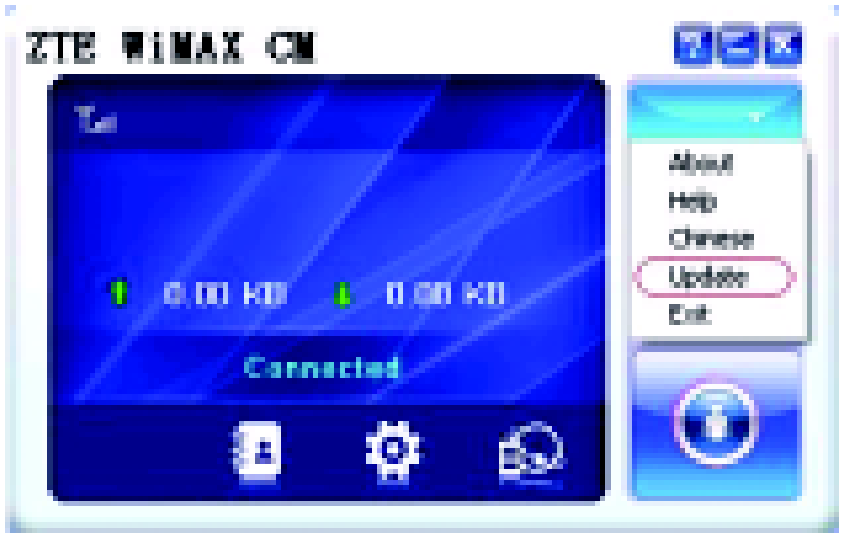
3. Update and change UI language

3.1 Updating the Modem Connection Manager

You can update the Modem Connection Manager version via the CM interface.

To update the latest Modem Connection Manager,

1. Launch the Modem Connection Manager (the CM interface refers to chapter 4).
2. Click the **Update** button in the CM interface, and then link to the latest ZTE CM software downloading website.



3. Download the latest ZTE CM software.
4. Install the software to update the Modem Connection Manager.

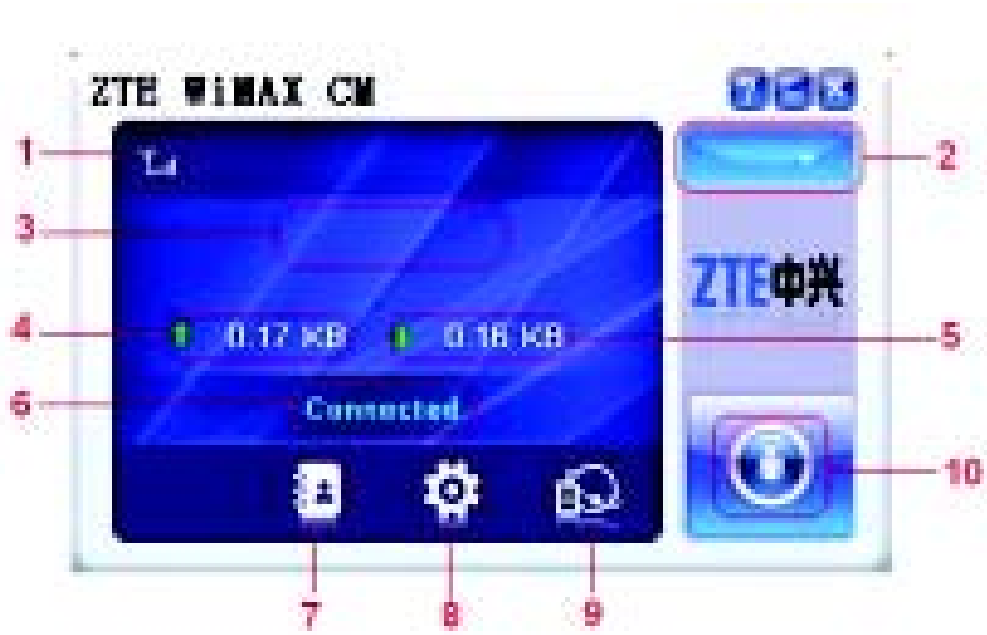
3.2 Change UI language

Click the **Chinese** button in the CM interface to change the UI language to Chinese.

Note:When UI language is **Chinese**, the text of the button will become to “英文”. You can click it to change UI language to English.

4. Modem Connection Manager Interface

When you launch Modem Connection Manager, the CM interface will be displayed as shown:



1	**Signal Indicator**	Shows WiMAX signal strength if the network is found.
2	**Menu Button**	There are **About**, **Help**, **Chinese, Update** and **Exit** five submenu when click **Menu Button**.
3	**Operator Name**	Show the operator name when the Modem has connected with Network.
4	**Up Rate**	Show the upload rate.
5	**Down Rate**	Show the download rate.
6	**Status Bar**	Shows Modem status: **No Device**, **Searching**, **Wait for Connection**, **Connecting**, **Connected** and **RF Off**.

7	**Manual Authentication Button**	Configure the **Login** and **Password**.
8	**Options Button**	Configures the Modem options.
9	**Data Records Button**	Show the data records.
10	**Connect Button**	Connect/Disconnect to WiMAX network or wake up the Modem when click **Connect Button**

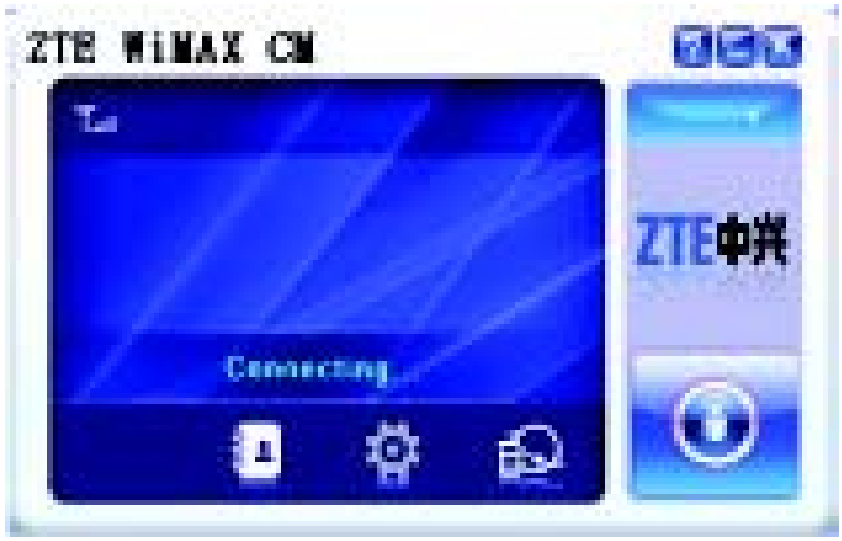
4.1 Connection Status

No Device: The Connection Manager software has not detected the Modem.

Searching: The Modem is searching for networks.

Wait for Connection: When the Modem searched WiMAX network, the CM displayed **Wait for Connection**. If networks are available, click ***Connect Button*** to initiate a connection to an available network.

Connecting: The Modem is establishing a new connection to WiMAX network.



Connected: The Modem has connected with the WiMAX network successfully.

RF Off: When RF Off appears, the radio connections of Modem are disabled.

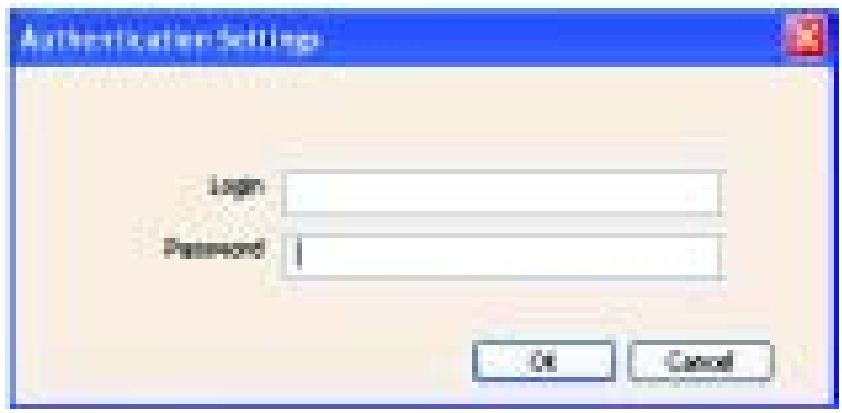
4.2 WiMAX Signal Strength

When connected to the WiMAX network or when viewing available networks, the bar icon indicates the relative strength of your WiMAX signal. Signal strength is not an indicator of network speed.

5. Modem Connection Manager Settings

5.1 Manual Authentication Setting

Click button to display the Authentication Settings panel.



Input the **Login** and **Password**. For **Login** and **Password** please contact your operator.

After you finished the Authentication Settings, click **OK** button to return to the main interface, and then click button to connect to the Internet.

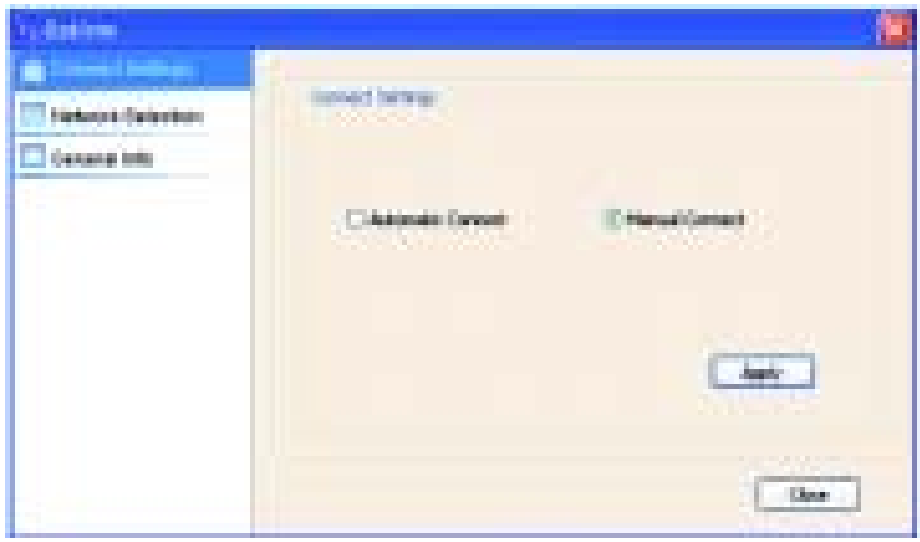
5.2 Options

The Options Settings window is divided into three panels:

- **Connect Settings**
- **Network Selection**
- **General Info**

5.2.1 Connect Settings

Click ***Options > Connect Settings*** to display the Connect Settings panel.



- **Automatic Connect:** When you launch CM software, the WiMAX Modem will connect to WiMAX network automatically.

The Automatic Connection supports three modes:

i. When network connection is lost unexpectedly, the CM will try to connect network again automatically.

ii. Select the **Automatic Connect** option, and then restart the CM, it can connect available networks automatically.

iii. Select the **Automatic Connect** option, remove the WiMAX modem, and insert it again, the CM can connect available networks automatically.

- **Manual Connect:** You need click the connect icon to connect WiMAX network after you launch the CM software.

5.2.2 Network Selection

Click ***Options > Network Selection*** to display the Network Selection panel.

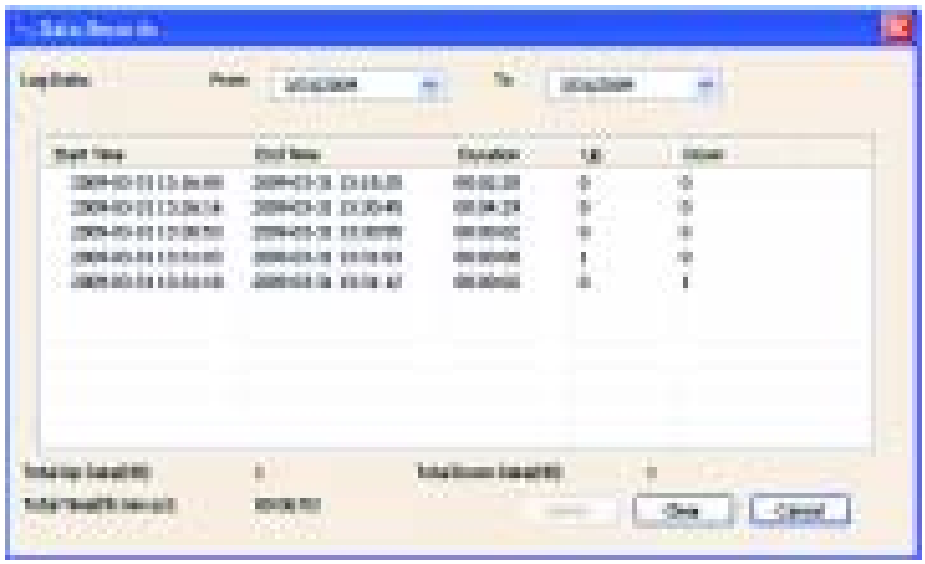
You will see the searched network information including Status, Operator Name and Network Type.

5.2.3 General Info

Click ***Options*** > ***General Info*** to display the general information panel. You will see the basic information including Base Station Information and Device Information.

6. Data Records

Click ***Data Records*** to display the Modem Connection Manager's connection history.



7. FAQs

When you meet the following problems in service, please refer to the following answers to solve them. If the problems still exist, please contact with your suppliers.

Problem Description	Possible Causes	Problem Solving
The system can not run the installation program automatically.	The system configuration is not suitable for the auto-run.	Open the disc of the Modem program and start the autorun.exe. If you have installed the other version of installation program please uninstall it firstly.
After the Modem is plugged in, the UI program doesn't run automatically.	The system configuration is not proper.	Please open the UI program manually.
After restarted the computer, there is no signal all the time.	1. You are in the place where no WiMAX network coveredsuch as underground parking lot, tunnel etc.	Move to the place that has good signal.
	2. The Modem isn't connected well.	Pull out and insert the Modem safely again.

Problem Description	Possible Causes	Problem Solving
When the Modem is being inserted, the notebook computer cannot find it.	1. The installation programs of the Modem haven't been installed properly.	1. Run the installation program first and then connect the Modem. If you use the Windows XP operating system, install the drivers according to the Windows indication information to operate.
	2. The Modem isn't connected well.	2. Restart the computer, or connect the Modem again.
connection failed.	1. You are in the place where no WiMAX network covered, such as underground parking lot, tunnel etc.	Move to regions with strong signal.
	2.The network is busy now.	Try again later.
	3.The manual authentication setting is error.	Please contact your operator