



ZXMBW TP25I

WiMAX Wireless Data Card

User Manual

Version 1.0

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About this Manual

Purpose

This manual describes the safety precautions of the ZXMBW TP25I WiMAX wireless data card as well as installation, un-installation, usage and troubleshooting.

To facilitate descriptions, this manual calls the ZXMBW TP25I WiMAX wireless data card as DATA CARD for short. Unless otherwise specified, the DATA CARD mentioned in this manual refers to the ZXMBW TP25I WiMAX wireless data card.

Intended Audience

As an end user manual, this manual is intended for users of the ZXMBW TP25I WiMAX wireless data card.

Prerequisite Skill and Knowledge

To use this document effectively, users should have a general understanding of wireless telecommunications technology. Familiarity with the following is helpful:

- WiMax technology
- ZXMBW system and its various components

What is in This Manual

This Manual contains the following chapters:

TABLE 1 CHAPTERS SUMMARY

Chapters	Summary
Chapter 1 Safety Instruction	This chapter describes safety instruction while using the Data Card.
Chapter 2 Data Card Overview	This chapter gives a brief introduction to function, hardware of DATA CARD.

Chapters	Summary
Chapter 3 Installing and Uninstalling Data Card	This chapter describes the hardware and software installation and un-installation procedures of Data Card.
Chapter 4 Data Card Usage	This chapter describes the usage principles of Data Card
Chapter 5 Common Faults Analysis	This chapter describes common faults and Handlings of Data Card.

Conventions

ZTE documents employ the following typographical conventions.

Typographical Conventions

TABLE 2 TYPOGRAPHICAL CONVENTIONS

Typeface	Meaning
<i>Italics</i>	References to other Manuals and documents.
"Quotes"	Links on screens.
Bold	Menus, menu options, function names, input fields, radio button names, check boxes, drop-down lists, dialog box names, window names.
CAPS	Keys on the keyboard and buttons on screens and company name.
Constant width	Text that you type, program code, files and directory names, and function names.
[]	Optional parameters.
{ }	Mandatory parameters.
	Select one of the parameters that are delimited by it.
	Note: Provides additional information about a certain topic.
	Checkpoint: Indicates that a particular step needs to be checked before proceeding further.
	Tip: Indicates a suggestion or hint to make things easier or more productive for the reader.

Mouse Operation Conventions

TABLE 3 MOUSE OPERATION CONVENTIONS

Typeface	Meaning
Click	Refers to clicking the primary mouse button (usually the left mouse button) once.
Double-click	Refers to quickly clicking the primary mouse button (usually the left mouse button) twice.
Right-click	Refers to clicking the secondary mouse button (usually the right mouse button) once.
Drag	Refers to pressing and holding a mouse button and moving the mouse.

Safety Conventions

TABLE 4 SAFETY CONVENTIONS

Safety Word	Meaning
Danger	Indicates an imminently hazardous situation, which if not avoided, will result in death or serious injury. This safety word should be limited to only extreme situations.
Warning	Indicates a potentially hazardous situation, which if not avoided, could result in death or serious injury.
Caution	Indicates a potentially hazardous situation, which if not avoided, could result in minor or moderate injury. It may also be used to alert against unsafe practices.
Note	Indicates a potentially hazardous situation, which if not avoided, could result in injuries, equipment damage or interruption of services; or provides additional information about a certain topic.
Tip	Indicates a suggestion or hint to make things easier or more productive for the reader

How to Get in Touch

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ZTE welcomes your comments and suggestions on the quality and usefulness of this document. For further questions, comments, or suggestions on the documentation, you can contact us by e-mail at doc@zte.com.cn; or you can fax your comments and suggestions to (86) 755 26772236. You can also browse our website at <http://support.zte.com.cn>, which contains various interesting subjects like documentation, knowledge base, forum and service request.

Caution:

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Information to User: The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment

Chapter 1

Safety Instructions

This Chapter covers the following topics:

- Personal Safety
- Data Card Safety
- Precautions

Personal Safety

- The use of RF devices including the DATA CARD may result in interference to some electronic devices (such as some electronic systems in motor vehicles) with poor shielding performance. Therefore, before using the DATA CARD, make sure to consult the manufacturer of such electronic devices.
- Pay attention to the use restrictions and regulations in sites with explosive manufacture processes (such as oil warehouse and chemical factory) and those with special requirements (such as hospital).
- During the use of the DATA CARD, do not contact the antenna area unless necessary, to save energy.
- Pay attention to traffic safety. During the driving, obey the related local laws or regulations.
- Keep the DATA CARD out of reach of children, lest they play it as a toy, which may result in personal injury.
- The SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue. Device types ZXMBW TP251 (FCC ID: Q78-ZXMBW-TP251) has also been tested against this SAR limit. The highest SAR value reported under this standard during product certification for use when used next to the body in a typical notebook computer with side-mounted PCMCIA port to maintain compliance with FCC RF exposure requirements, use accessories that maintain a 1.5cm separation distance between the user's body and the back of the handset. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided

DATA CARD Safety

- You can only use the original accessories or the ones approved by the manufacturer. The use of any approved accessory may affect the performance of the DATA CARD, go against the warranty terms or the related national regulations on communication terminal products, and even result in personal injury.
- Do not use this product immediately after drastic temperature change. In this case, condensation may appear inside or outside the device. Do not use it until the condensation is dried.
- Use slightly damp antistatic cloth for cleaning the DATA CARD. Do not use chemical substances such as detergent for cleaning the surface of the DATA CARD.

- All data cards may be interfered with and hence have their performance affected.
- Do not expose your DATA CARD to strong sunshine, to avoid damaging it by excessive heating.
- Try to prevent all kinds of liquid from entering the DATA CARD to cause damage.
- Do not throw or knock the DATA CARD, because rough handling may damage the circuit boards inside.
- Do not connect the DATA CARD with any unmatched device.
- Only professionals are allowed to open the DATA CARD; otherwise, personal injury or device damage may occur.
- Do not connect the DATA CARD with any unmatched product.
- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
 - (1) This device may not cause harmful interference, and
 - (2) This device must accept any interference received, including interference that may cause undesired operation.

Precautions

- Before or during sending/receiving a call, note and obey the local laws or regulations on the use of mobile wireless phones.
- The supplement restraint system (SRS), brake, speed control system and fuel injection system are expected to be free from influence of the wireless transmission. For any problem, contact your car dealer.
- When you are refueling or in a site prohibiting the use of bidirectional wireless devices, turn off the DATA CARD. Do not place the DATA CARD with explosive or inflammable objects, to ensure safety.

Turn off the DATA CARD before takeoff of the airplane. During the flight, do not use the DATA CARD to avoid interference with the communication system of the airplane. When the airplane has not taken off, you can use the DATA CARD if you get the approval of the aircrew.

This device should not be co-located or operating in conjunction with any other transmitter or antenna.

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Chapter 2

Data Card Overview

This chapter describes:

- Brief Introduction
- Packing List
- Hardware Description
- Technical Specifications

Brief Introduction

The ZXMBW TP25I WiMAX wireless data card is based on the WiMAX network. In places covered by WiMAX signals, it is capable of accessing the broadband Internet any time and any place, receiving/sending E-mail, and fulfilling such services as IPTV, VoIP and VOD, providing users with extremely free, flexible, fast and convenient Internet access. In this way, it makes your dream of a mobile office come true.

With a PCMCIA interface, the DATA CARD can be conveniently inserted into a notebook computer such an interface. The PCMCIA interface is used for the external hardware connection of the notebook computer, with a high transmission speed, easy plugging/unplugging and good compatibility.

Based on the IEEE 8.02.16e standard, the DATA CARD is capable of providing high-speed data access under the mobile environment.

Adopting the PCMCIA interface, the DATA CARD is compact and light. It has sleek appearance and stable performance.

Currently, the DATA CARD can be used in the Windows XP operating system only.

Packing List

Before unpacking the DATA CARD, you should check whether the package is intact. After opening the package, check the objects inside. The following objects should be contained:

- ZXMBW TP25I WiMAX wireless data card
- Installation CD (with installer for installation at the computer side and instructions)
- User manual
- Quality certificate
- Warranty card

Hardware Descriptions

The appearance of a DATA CARD is shown in Figure 1.

FIGURE 1 APPEARANCE OF A DATA CARD



There is a PCMCIA interface on the DATA CARD, for connecting with the PCMCIA slot on the computer.

Technical Indices

The technical indices of the DATA CARD are listed in Table 5.

TABLE 5 TECHNICAL INDICES

Item	Index
Network parameter	WIMAX 2.5G Hz
Dimensions	About 118 mm×54 mm×5 mm
Weight	About 54 g
Data rate	Maximum rate: 2 Mbps in downlink, 1 Mbps in uplink
Working voltage	3.3V (using the power supply of the notebook computer)
Current loss	Dormant: 80 mA; Maximum: 800 mA
Maximum transmitting power	23.8 dbm
Highest SAR Value	0.268 W/kg (Limit: 1.6W/kg)
ERP	23.2dBm
Operation Condition:	Storage conditions : -25 to 75°C, 10% to 95% Operation conditions : 0 to 50°C, 10% to 90% humidity (non condensing) Altitude: up to and including 5000m above sea level

Applied Standards

	Title	Spec	Remark
ANSI			
Lawful interception (CALEA)	Communications Assistance for Law Enforcement (CALEA)	Ref 错误! 未找到引用源。 , Ref 错误! 未找到引用源。 , Ref 错误! 未找到引用源。 , and Ref 错误! 未找到引用源。 and subsequent versions	
Electrical safety	Voltage levels for DC Powered Equipment	ANSI T1.315-2001	
Fire resistance	Fire Resistance Criteria	ANSI T1.307-2003	
Fire propagation	Equipment Assemblies Fire Propagation Risk	ANSI T1.319-2002	
Telcordia			RBOC-specific requirements.
NEBS Level 3	Network Equipment-Building System (NEBS)	GR-63-CORE GR-1089-CORE SR-3580	
CLEI codes	Common Language Equipment Identification	GR-383-CORE GR-485-CORE	
TL1 commands	Transaction Language 1	TR-NWT-000831 GR-199-CORE GR-833-CORE	
OSMINE (OSS)	Operations System Modifications for the Integration of Network Elements	SR-683	
FCC			
Part 15	Radio frequency devices	FCC Part 15	
Part 27	Wireless Communications Service	FCC Part 27	
Others			
E-911	Emergency Services (E-911)	Ref 错误! 未找到引用源。 , Ref 错误! 未找到引用源。 , and subsequent versions	
LNP	Local Number Portability (LNP)		
TDD	hard-of-hearing/disabled users (like TDD)		
PACA	Priority Access Channel Assignment (PACA)		optional
GETS	Government Emergency Telecommunications Service (GETS)		optional
Electrical safety	National Electric Code Article 250		
Electrical safety	National Electric Safety Code		
Occupational Safety	Department of Labor-Occupational Safety and Health Standards		

	Title	Spec	Remark
UL certification	Underwriters Laboratories 60950 version 3	UL 60950 version 3	
TIA testing	Technical Criteria for Terminal Equipment to Prevent Harms to the Telephone Network	TIA-968-Section 6	
Power & Grounding	SBC Local Exchange Carriers, Network Equipment Power, Grounding, Environmental, and Physical Design Requirements	TP76200MP	SBC-specific requirements

Chapter 3

Installing and Uninstalling Data Card

This chapter describes:

- System Requirements
- Hardware Installation
- Hardware Description
- Technical Specifications

System Requirements

Before installing the DATA CARD, make sure that the following three conditions are met:

- Your computer has an available PCMCIA slot.
- The CPU main frequency is at least 1 GHz, the memory is at least 256 MB, and the spare space of the hard disk is at least 100 MB.
- The operating system is Windows XP.

Hardware Installation

Insert the DATA CARD into a vacant PCMCIA slot of your computer.

The hardware installation procedure is as follows:

1. Press the locker of the PCMCIA slot of your computer, to make the locker automatically bounce out. Then press it to eject the PCMCIA slot protection panel.
2. Take out this panel, and make the pins of the DATA CARD pointing at the PCMCIA slot of the computer, and then slowly push the DATA CARD with appropriate force, as shown in Figure 2.

FIGURE 2 INSERTING A DATA CARD INTO A COMPUTER



3. After the DATA CARD and the PCMAIC slot normally join together, you can hear a "tick", as shown in Figure 3.

FIGURE 3 INSTALLING THE DATA CARD CORRECTLY



Note: If the DATA CARD program has never been installed in the operating system, after the DATA CARD is inserted, the operating system prompts that new hardware is detected and the corresponding applications need to be installed. For the installation of the DATA CARD program, refer to Section Software Installation.

Software Installation

If the DATA CARD is used for the first time, install the DATA CARD program for the purpose of normal use.

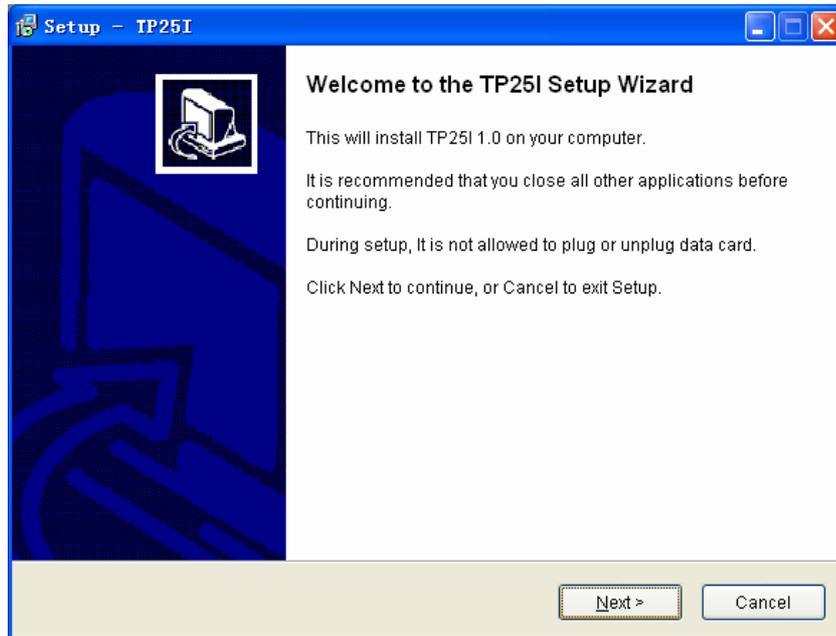
Attention: To avoid failed DATA CARD program installation or hardware damage, do not unplug/plug the DATA CARD during the installation of the DATA CARD program

The installation procedure of the DATA CARD program is as follows:

1. Place the CD delivered with the DATA CARD into the CD-ROM of the computer. If the computer supports the automatic start of the CD, the **Welcome to the TP251 Setup Wizard** window is displayed, as shown in Figure 4.

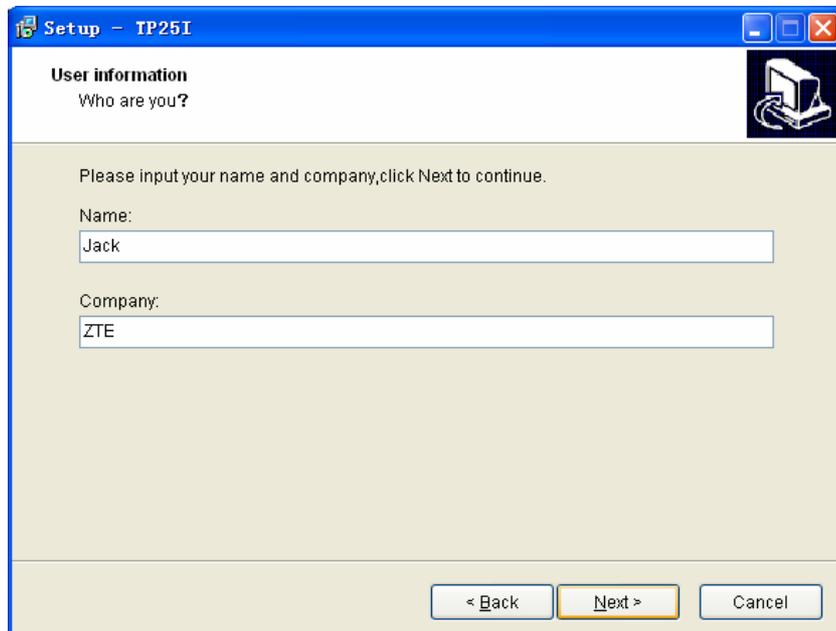
If the computer does not support the automatic start of the CD, you need to run the installation program setup.exe in the CD directory, to display the **Welcome to the TP251 Setup Wizard** window shown in Figure 4.

FIGURE 4 WELCOME TO THE TP25I SETUP WIZARD



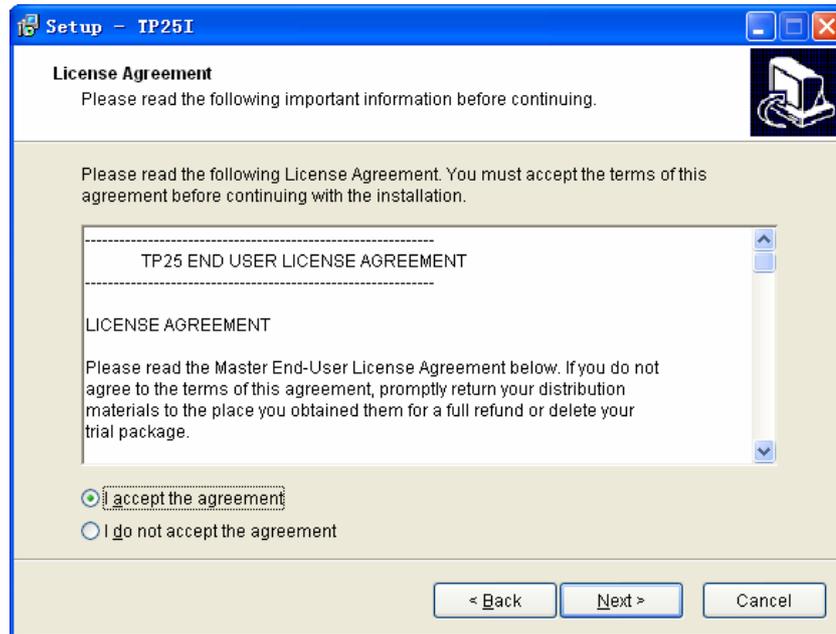
2. Click Next to access the User Information window, as shown in Figure 5.

FIGURE 5 USER INFORMATION



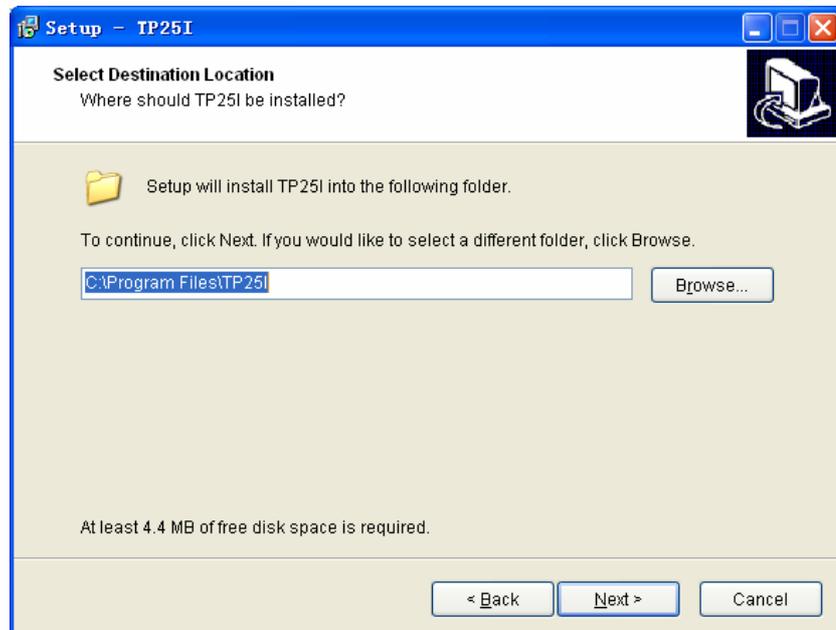
3. Enter the user information, and click **Next** to enter the **License Agreement** window, as shown in Figure 6.

FIGURE 6 LICENSE AGREEMENT



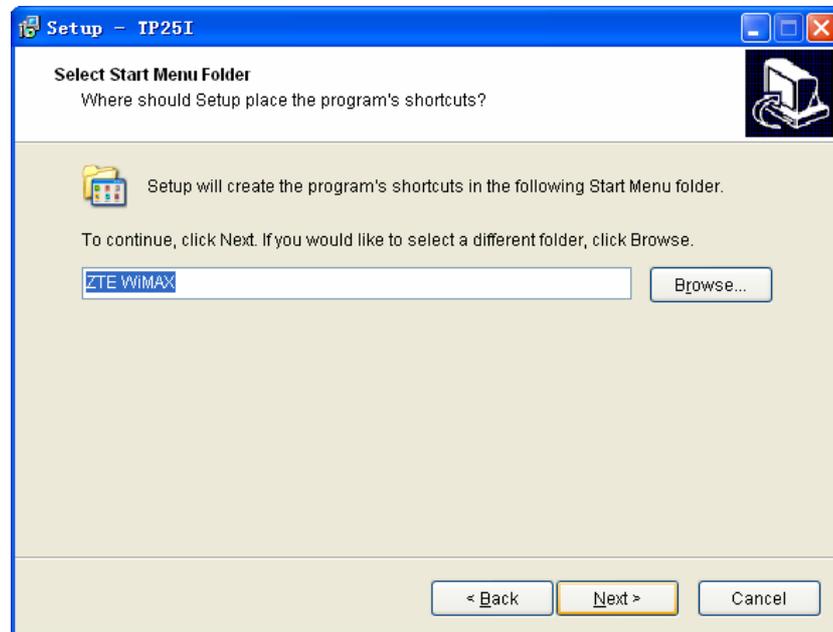
- Carefully read the agreement contents, and click **I accept the agreement** and then **Next**, to enter the **Select Destination Location** window, as shown in Figure 7.

FIGURE 7 SELECT DESTINATION LOCATION



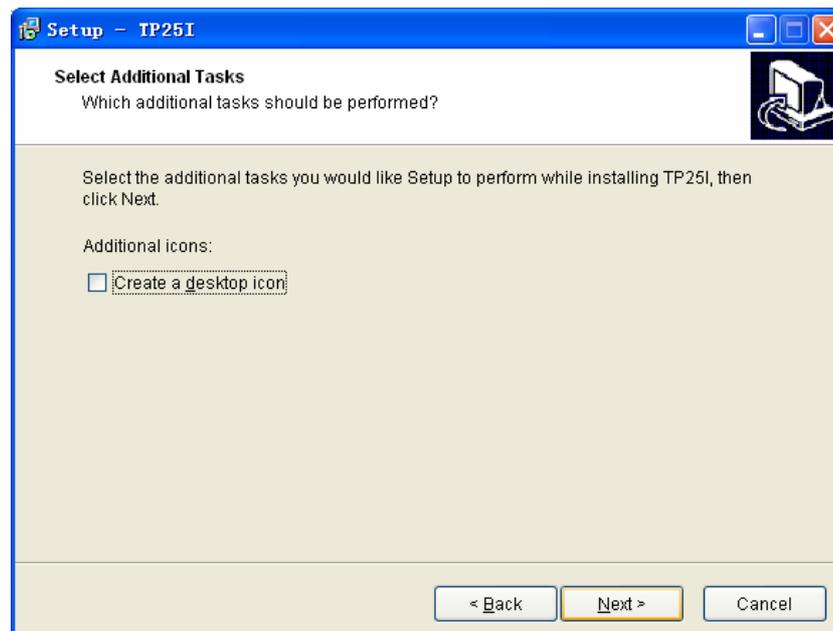
5. Enter or select the installation destination directory, and click **Next** to enter the **Select Start Menu Folder** window, as shown in Figure 8.

FIGURE 8 SELECT START MENU FOLDER



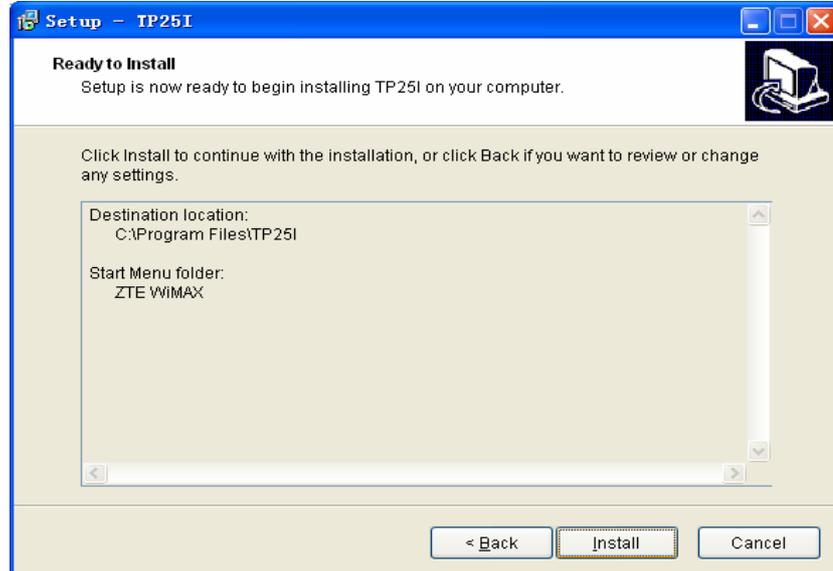
6. Click **Next** to enter the **Select Addition Task** window, as shown in Figure 9.

FIGURE 9 SELECT ADDITION TASK



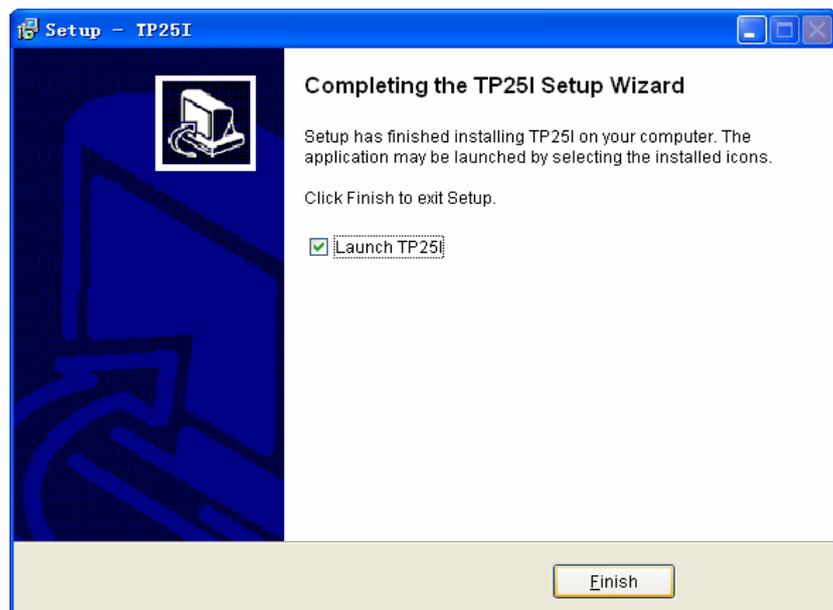
7. Check **Create a desktop icon** and click **Next**, to enter the **Ready to Install** window, as shown in Figure 10.

FIGURE 10 READY TO INSTALL



8. Click **Install** to start installing the DATA CARD program. At the end of the successful installation, the **Completing the TP25I Setup Wizard** window appears, as shown in Figure 11.

FIGURE 11 COMPLETING THE TP25I SETUP WIZARD



9. Click **Finish** to finish the installation of the DATA CARD program.

Software Un-Installation

When DATA CARD is not required any more or need to re-install the DATA CARD program, un-install the DATA CARD program.

The un-installation procedure of the DATA CARD program is as follows:

1. If the DATA CARD program is running, you should shut it down.

When the DATA CARD program is running, the tray icon  is displayed at the lower right corner of the Windows interface. Right-click  and select **Exit** in the shortcut menu, to shut down the DATA CARD program.

2. In the Windows interface, select **Start > Program Files > ZTE WiMAX > Uninstall TP25I**, to enter the un-installation confirmation window, as shown in Figure 12.

FIGURE 12 UN-INSTALLATION CONFIGURATION



3. Click **Yes** to un-install the DATA CARD program.
4. At the end of the un-installation, click **Finish**.

Hardware Un-Installation

For the descriptions of the hardware un-installation, refer to the Section: Safely Removing DATA CARD.

Chapter 4

Data Card Usage

This chapter describes:

- Starting Program
- Connecting with Network
- Interrupting Connection
- Viewing Logs
- Managing Account and Password
- Displaying Help Information
- Exiting
- Safely Removing Data Card

Starting Program

After the DATA CARD program is successfully installed, the **Start > Program Files > ZTE WiMAX** program group is added in the start menu of the Window system, and the **ZTE** shortcut icon is also added on the Windows desktop.

Select **Start > Program Files > ZTE WiMAX > TP25I**, or double-click **ZTE** on the Windows desktop, to start the DATA CARD program.

After the DATA CARD program is started, the window shown in Figure 13 appears.

FIGURE 13 MAIN WINDOW OF DATA CARD PROGRAM



After the DATA CARD program is started, the corresponding tray icon is displayed at the lower right corner of the Windows interface. The buttons in the main window and their functions are described in Table 6. The tray icons in different status and their meaning are described in Table 7.

TABLE 6 BUTTONS AND FUNCTIONS

Button Icon	Meaning
	Entering the login window
	Entering the status window
	Entering the log window

	Entering the about window
	Showing the help document
	Exiting the application
	Indicating the signal when the network is not connected
	Indicating the signal when the network is connected. There are 7 signal levels, and more bars indicate stronger signal.

TABLE 7 TRAY ICONS AND MEANINGS

Icon	Meaning
	The DATA CARD is not inserted or is unavailable.
	The network is not accessed or the connection is interrupted.
	The network is connected successfully.

The functions of the tray icons of the DATA CARD program are described in Table 8.

TABLE 8 FUNCTIONS OF TRAY ICONS

Operation	Function
Double-click the tray icon	Activating the application software and displaying the main window of the DATA CARD program
Right-click the tray icon	Displaying the shortcut menu. The shortcut menu items and their meanings are as follows: Open: Activating the application software and displaying the main window of the DATA CARD program Connect: Entering the login window Disconnect: Canceling this login Exit: Interrupting the connection and closing the application interface

Connecting with Network

After the DATA CARD program is started, you need to log in to the network and pass the authentication before normally accessing the Internet.

The network login procedure is as follows:

1. Click Start > Program Files > ZTE WiMAX > TP25I to start the DATA CARD program.
2. In the main window of the DATA CARD program, click  or right-click  in the lower right corner of the Window interface, and then select **Connect** to enter the network login window, as shown in Figure 14.

If the main window is hidden, you can double-click  to show it.

FIGURE 14 NETWORK LOGIN

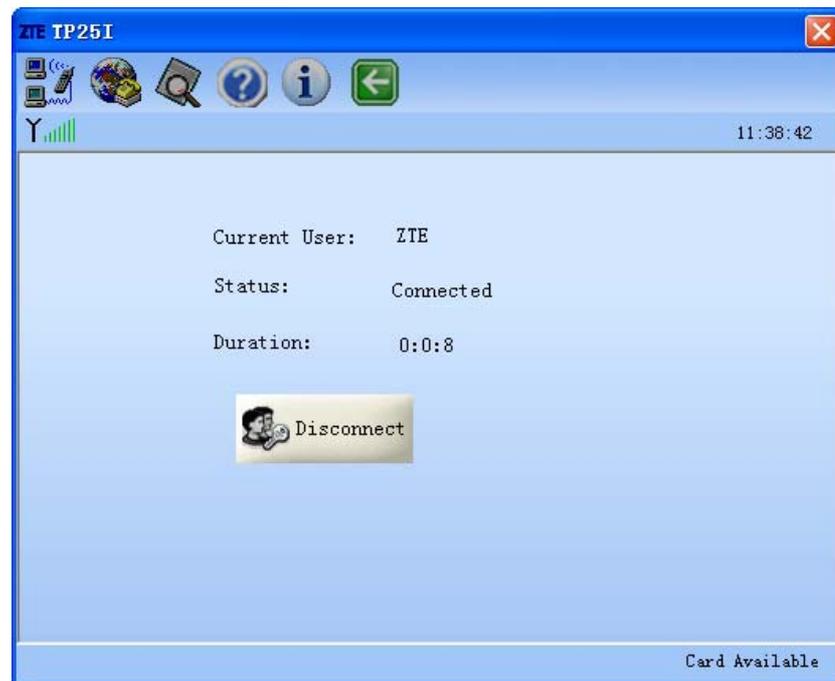


3. Enter the login account or select an account used in the **Account** pull-down list box, enter the corresponding password, and click **Login**. The program starts connecting with the network.

After the connection succeeds, the main window of the DATA CARD program displays "Status: Connected" as well as the data volume and connection duration, as shown in Figure 15.

At the same time, the tray icon turns into .

FIGURE 15 STATUS OF INTERNET ACCESS



Now you can enjoy the WiMAX broadband wireless Internet access.

Note: To save the account and the password, you need to check Save Password before clicking Login. After this operation, you do not need to enter the password again in the next network login.

Interrupting Connection

After the successful login, exit the network connection to end this Internet access.

The network logout procedure is as follows:

1. In the login status window shown in Figure 15, click **Disconnect** or right-click **ZTE**, and then select **Disconnect**, to enter the logout confirmation dialog box.
2. Click **Yes** to cancel the network login.

After the above operations, the tray icon of the DATA CARD applications turns into **ZTE**, and the main window displays "Status: Disconnected".

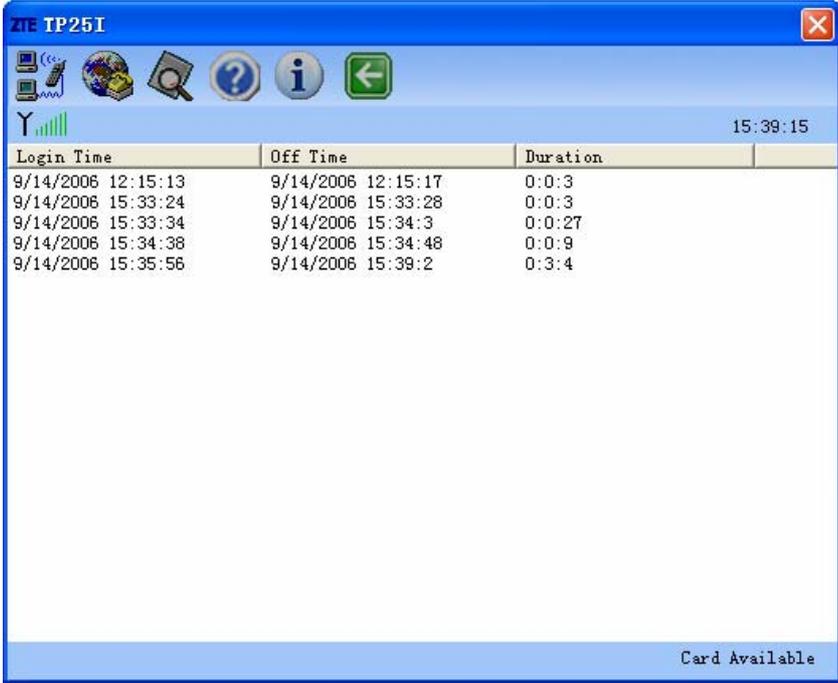
Viewing Logs

After logging in to the network successfully, you can view the Internet access information records of the current account, such as login time, logout time and connection duration.

The detailed operations are as follows:

1. In the login status window shown in Figure 15 click  to enter the Internet access log window as shown in Figure 16.

FIGURE 16 INTERNET ACCESS LOG



Login Time	Off Time	Duration
9/14/2006 12:15:13	9/14/2006 12:15:17	0:0:3
9/14/2006 15:33:24	9/14/2006 15:33:28	0:0:3
9/14/2006 15:33:34	9/14/2006 15:34:3	0:0:27
9/14/2006 15:34:38	9/14/2006 15:34:48	0:0:9
9/14/2006 15:35:56	9/14/2006 15:39:2	0:3:4

2. Right-click on the recording area to display the operation menu for this log as shown in Figure 17.

FIGURE 17 OPERATION MENU FOR INTERNET ACCESS LOG



The functions of this menu are described in Table 9.

TABLE 9 MENU AND MEANINGS

Icon	Meaning
Delete Selected	Deleting the selected record
Empty	Clearing the recorded table items
Copy Selected	Copying the selected record
Select All	Selecting all records
Refresh	Refreshing the recording table

Managing Account and Password

In the login window, you can perform simple operations to the login accounts and the passwords, such as saving an account and a password or deleting the selected account and password.

After saving the account and password, you do not need to enter such information again in the next login operation. Instead, you only need to select the account from the pull-down list box. Deleting an account and a password means to delete the saved account and password.

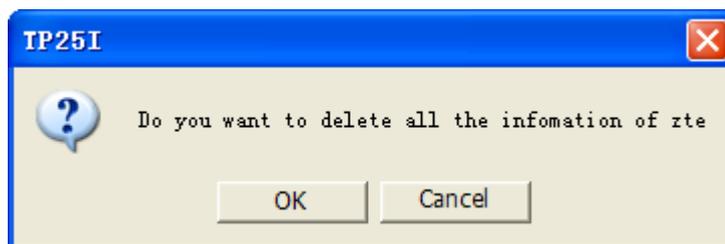
The procedure of saving an account and a password is as follows:

1. Select **Start > Program Files > ZTE WiMAX > TP25I** to start the wireless network card program and enter the main window.
2. Enter the account and the password, and then check **Save Password**.
3. Click **Login**.

The procedure of deleting an account and a password is as follows:

1. Select **Start > Program Files > ZTE WiMAX > TP25I** to start the wireless network card program and enter the main window.
2. In the **Account** pull-down list box, select the account to be deleted, and right-click it to select **Delete Account**. The deletion confirmation dialog box pops up, as shown in Figure 18.

FIGURE 18 ACCOUNT DELETION CONFIRMATION



3. Click **OK** to delete the selected account.

Displaying Help Information

Displaying the help information means to view the on-line help information of the DATA CARD program.

The detailed operations are as follows:

Click  on the main window of the DATA CARD program.

Exiting

'Exiting' means exiting the DATA CARD program.

The detailed operations are as follows:

Click  on the main window of the DATA CARD program, or right-click  to select **Exit**.

After you exiting the program, the tray icon of the DATA CARD program disappears from the lower right corner of the Windows interface.

Safely Removing DATA CARD

Usually, the DATA CARD is inserted into the PCMCIA slot of the computer when necessary. At the end of the use, you need to remove it from the PCMCIA slot of the computer and save it properly.

The procedure of safely removing the DATA CARD from the notebook computer is as follows:

1. If the DATA CARD program is running, you should shut it down first. For the detailed operations, refer to Section Exiting.
2. Click  to select **Beceem_Communications_Inc. Tarang** in the shortcut menu.
3. Click **OK** in the pop-up dialog box for confirming the hardware removing.
4. Press the PCMCIA locker, and remove the DATA CARD from the PCMCIA slot.
5. Install the protection panel of the PCMCIA slot.

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Chapter 5

Common Faults Analysis

This chapter describes:

- Common Faults and solutions

Common Faults and Solution

If DATA CARD gets defective, refer to Table 10 for handling and troubleshooting. If the information in Table 10 cannot help, you can contact the local technical support staff of ZTE.

TABLE 10 COMMON FAULTS OF DATA CARD AND HANDLINGS

Symptom	Possible Cause	Solution
The DATA CARD receives no signal after the computer is restarted.	You are out of the coverage of the WiMAX network, for example, in an underground parking lot or tunnel. The DATA CARD is not inserted properly.	Move to the site with sound network signal. Unplug and then plug the DATA CARD again in a right way.
The notebook computer cannot detect the DATA CARD, in the installation of the DATA CARD.	The installer of the DATA CARD is not correctly installed. The DATA CARD is not inserted properly.	Run the installer at first, and then insert the DATA CARD. If you are using the Windows XP operating system, operate following the Windows wizard, to install the installer. Restart the computer and then insert the DATA CARD again.
The data connection fails.	You are out of the coverage of the WiMAX network, for example, in an underground parking lot or tunnel. The network in this area at this time is busy. You entered the login user name or password incorrectly.	Move to the site with sound network signal. Try again after a while. Perform login again with the correct user name and password.
Unable to open any website after accessing the Internet.	The IE browser gets faulty. The system is infected with virus (for example, Worm Blaster occupies huge uplink traffic so that you cannot receive the downlink traffic and cannot open any website).	If the IE browser is faulty, update it to a higher version or reinstall it. Apply professional anti-virus software to the whole operating system.
Unable to access the Internet when roaming	The roaming function of your DATA CARD has not been enabled.	Contact the operator of the area where your DATA CARD was purchased.

Appendix A

Abbreviations

Abbreviation	Full name
AMC	Adaptive Modulate Code
ARQ	Automatic Repeat reQuest
BBUA	Agile Base Station Baseband Unit
BSS	Base Station System
BSC	Base Station controller
CN	Core Network
CPU	Center Processing Unit
MIMO	Multi Input Multi Output
MES	Multi Extension Subsystem
IEEE	Institute of Electrical and Electronics Engineers
IPTV	Internet Protocol Television
OFDMA	orthogonal frequency division multiplexing access
PC	Personal Computer
PCMCIA	Personal Computer Memory Card International Association
WiMAX	Worldwide Interoperability for Microwave Access
RA25	Agile 2.5G Remote Radio Frequency Unit
SS	Subscriber Station
VOD	Video-On-Demand
VoIP	Voice over Internet Protocol

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