

CDMA2000 1X EV-DO Wireless Data Terminal User Guide

This User Guide applies to Wireless Data Terminal of MG478 and AC8700.

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1. Introduction

Thank you for choosing MG478/AC8700 CDMA2000 1X EV-DO Wireless Data Terminal (hereinafter referred to as Data Terminal) of ZTE Corporation.

The Data Terminal equips with a standard USB interface and supports both CDMA2000 1X EV-DO and CDMA2000 1X network. In the area where there is signal, it allows you to go surfing on the Internet, browse the web pages, and send & receive Emails

2. Specification

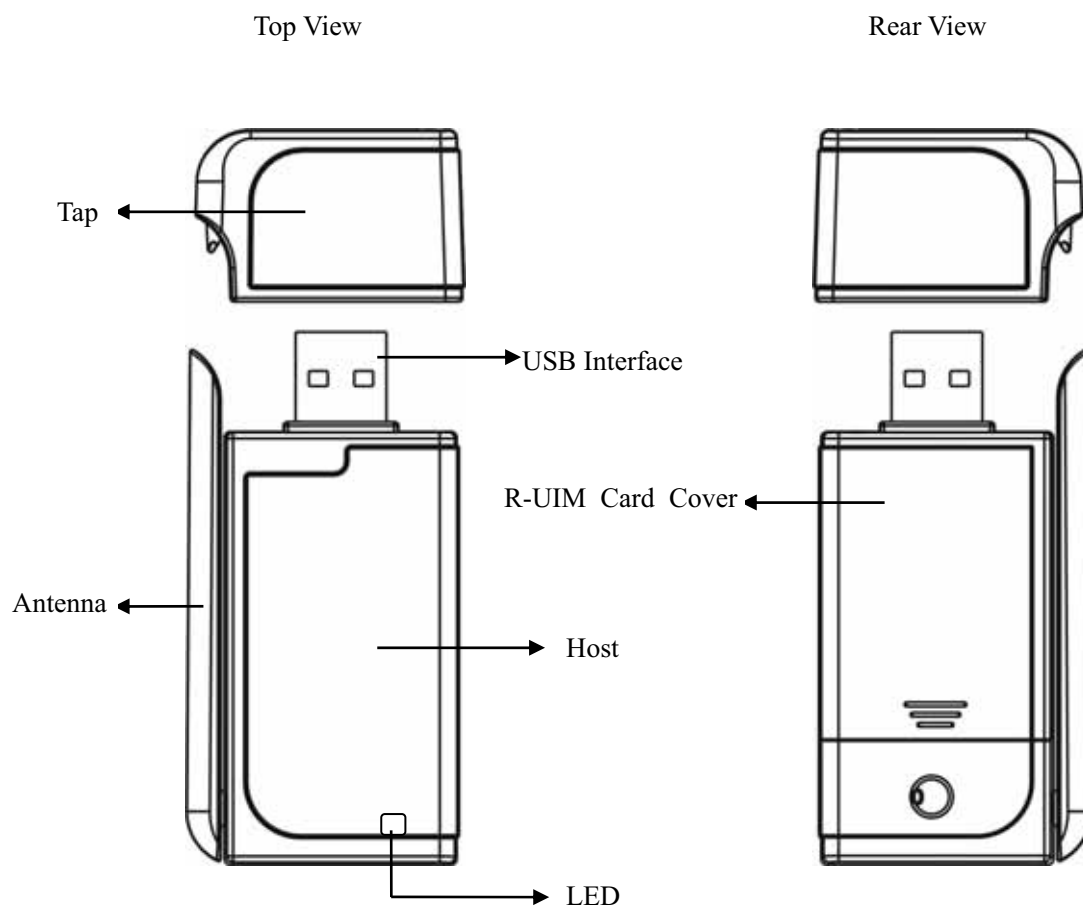
Parameter \ Model	MG478	AC8700
Transmitting Frequency	452.625-456.850MHz	824-849MHz
Receiving Frequency	462.625-466.850MHz	869-894MHz
Stability	Fc±300Hz	
Dimensions (L×W×H)	80 mm ×36 mm×12.8mm	
Weight	38.7g	
Data Rate	Max. down-link transmission rate: 2.4Mbps, Max. up-link transmission rate: 153Kbps	
Current	5V (using USB interface supply)	
Current Consumption	Sleep: 5mA Max.: 480mA	
Transmitting Power	224mW	

3. Precautions

- Please don't use the product near flammable or explosive materials because it might cause failure or fire.
- Keep the product away from high temperature, humidity, or dust because it might cause failure.
- Avoid shock, cast or impact. Please keep the product well when you don't use it.
- **Do not dismantle or disassemble the product at will or revolve the antenna frequently. Our company will not provide warranty service for the damage caused by abnormal operations.**
- Don't use the product near the place where is weak signal or high-precision electronic device because the magnetic interference might cause the misoperation of electronic device or other problems.
- Please don't insert or pull out the card with great force to avoid damaging the interface.

4. Appearance

4.1 Introduction



LED status descriptions:

LED	Insert the data terminal	Network Registered		There is service or searching the network	
		EV-DO	1X	EV-DO	1X
Yellow	ON	OFF	Slow Flash	OFF	Quick Flash
Green	ON	Slow Flash	OFF	Quick Flash	OFF

4.2 Insert R-UIM Card

Note: If your data terminal doesn't need R-UIM card, please skip this section.

1. Pull out the tap
2. Take out the R-UIM card cover in the direction indicated by the arrow
3. Insert R-UIM card as below figure



4. Push back R-UIM card cover in the direction indicated by the arrow



5. Install and Uninstall

System Requirements:

The Data Terminal supports the following operating system:

- Windows 2000
- Windows XP

PC minimum configurations:

CPU	Pentium-II/233MHz
USB interface	2.0 (USB1.0 and 1.1 compatible)
Optical Drive	CD-ROM (for installation only)
Memory	64 MB
Disk Space	30 MB (used for installation of application)

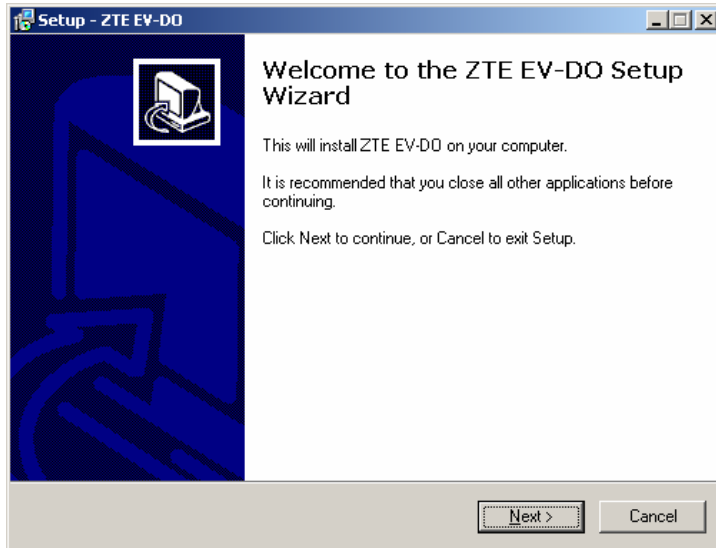
5.1 Windows 2000

5.1.1 Install

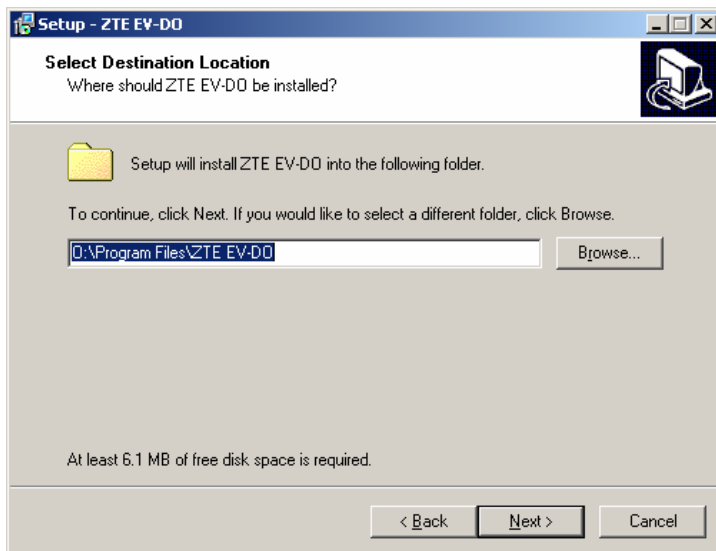
Note:

Do not insert the Data Terminal before installation.

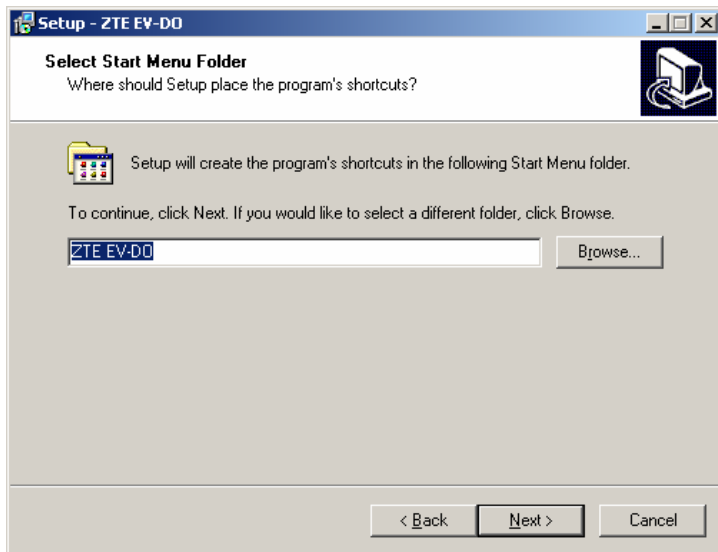
1、 Find “Setup.exe” firstly in Data Terminal CD-ROM, double-click it to display the Welcome picture, and then click “Next”;



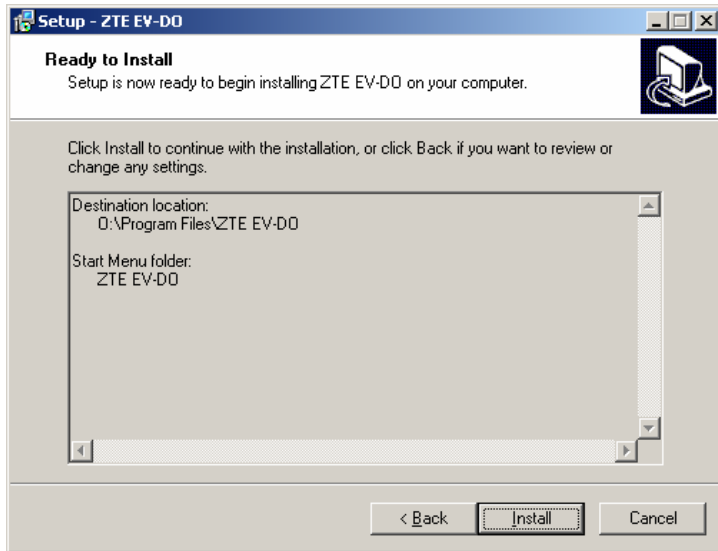
2、 Select the location where you want the program to be installed, and then click “Next”;



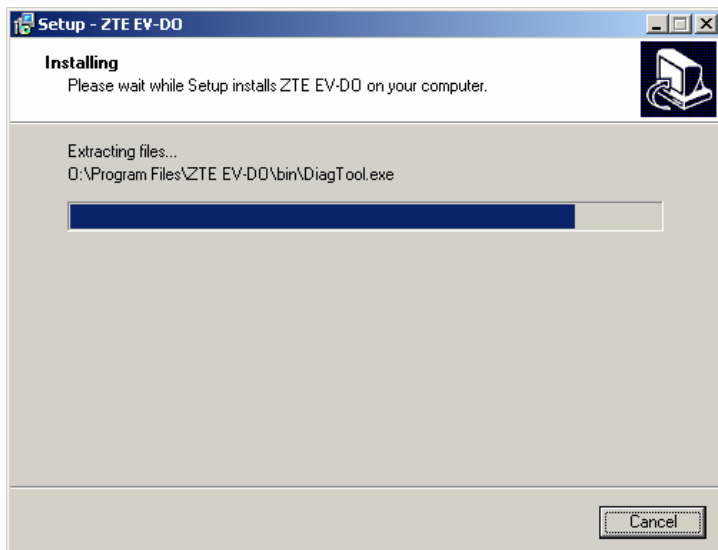
3、 Select Start Menu folder, and then click “Next”;



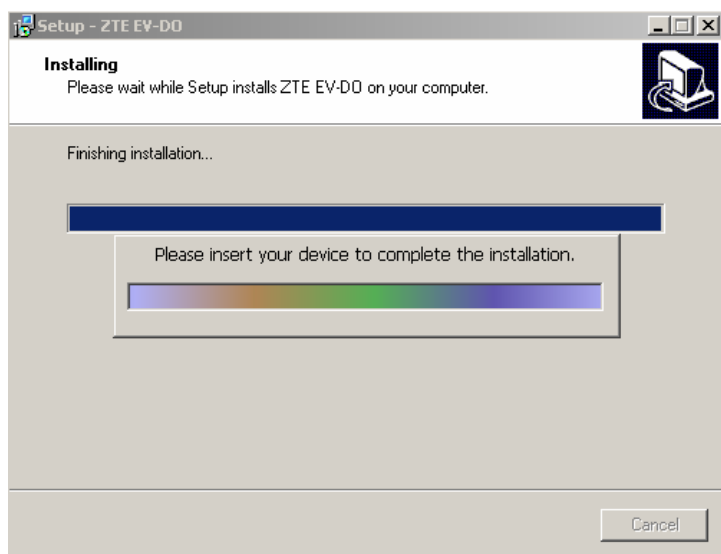
4、 When you see the window below, please click “Install”;



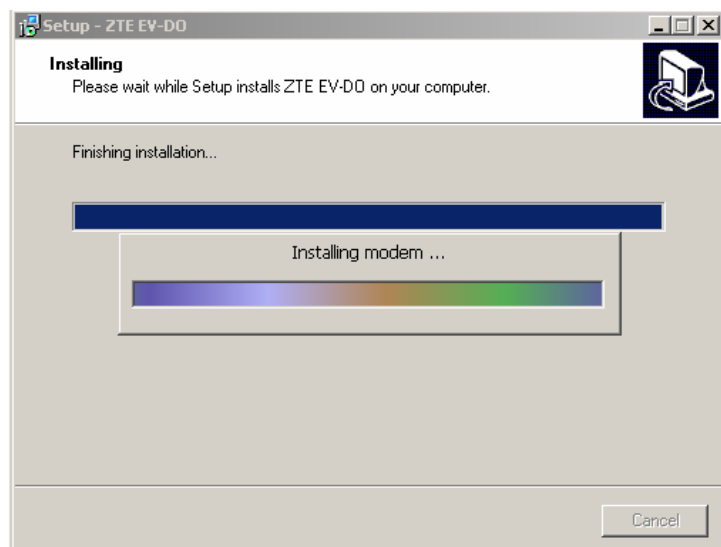
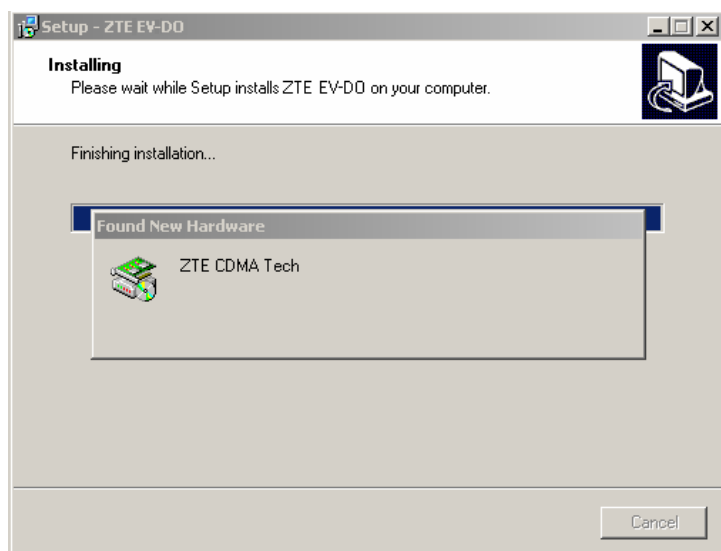
5、 Please wait for installation.



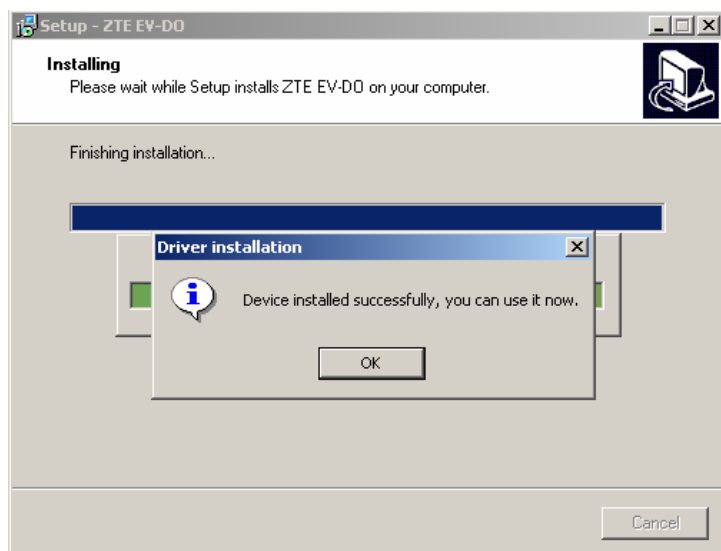
6、 Please insert the Data Terminal into USB interface if the system prompts you to insert the hardware (If it has been inserted, please unplug it and insert again.)



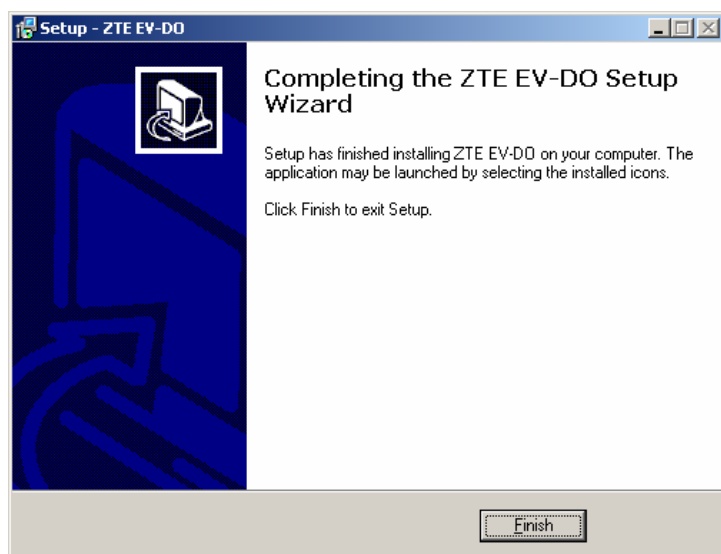
7、 The system shall find the new hardware and install the driver automatically. Just wait a minute;



8、The driver is installed successfully. Please click “OK”;

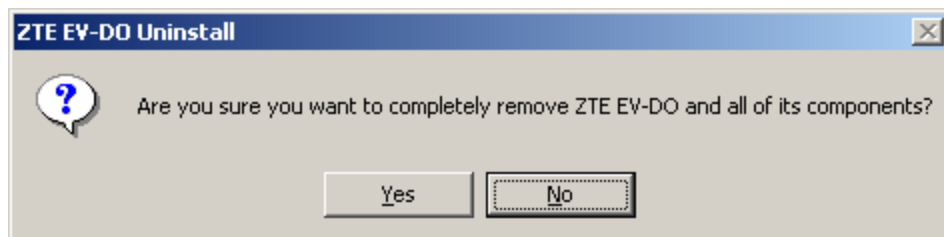


9、Click “Finish” to close the last screen of the wizard. Now you can start the application for Data Terminal.

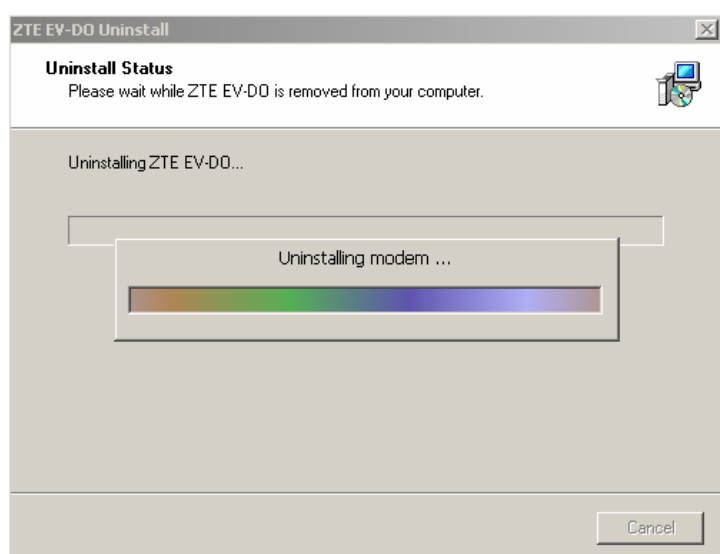


5.1.2 Uninstall

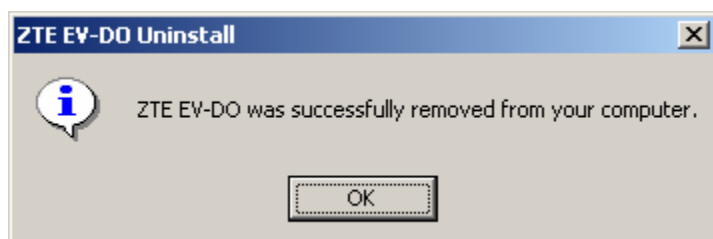
1、 Select Start -> Programs -> ZTE EV-DO -> Uninstall ZTE EV-DO. Click “Uninstall ZTE EV-DO”, and you will be asked if you want to remove the program. Click “Yes”;



2、 Please wait;



3、 Click “OK” when un-installation is completed;



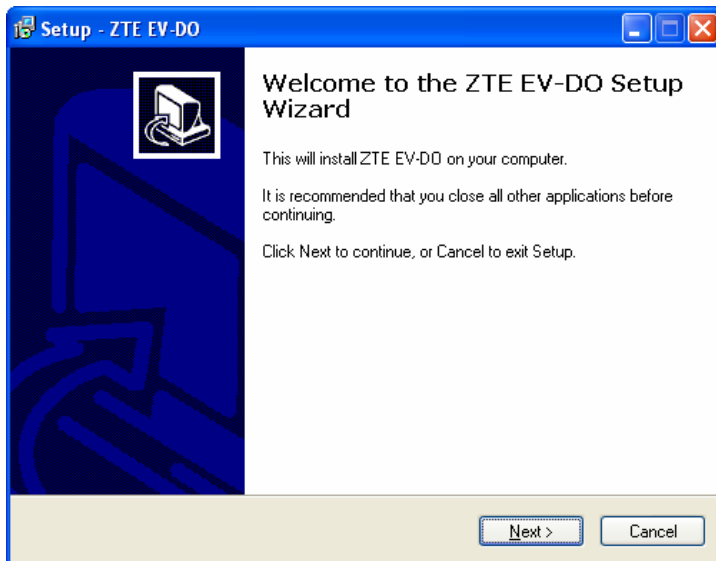
5.2 Windows XP

5.2.1 Install

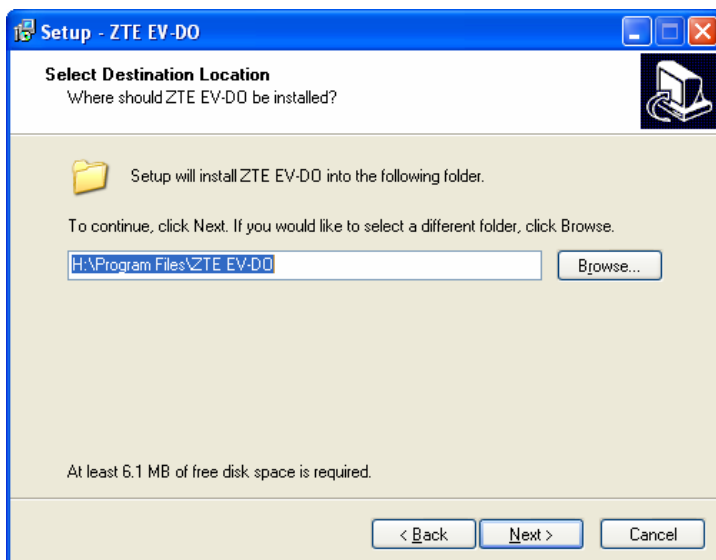
Note:

Do not insert the Data Terminal before installation.

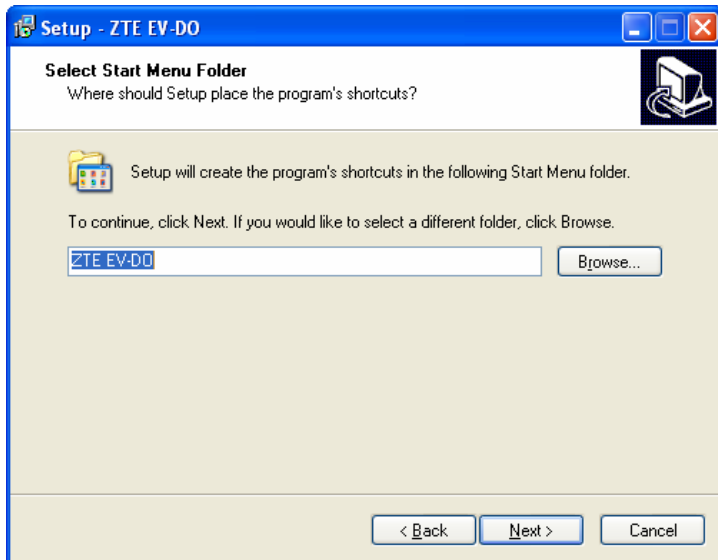
1、 Find “Setup.exe” firstly in the Data Terminal CD-ROM, double-click it to display the Welcome picture, and then click “Next”;



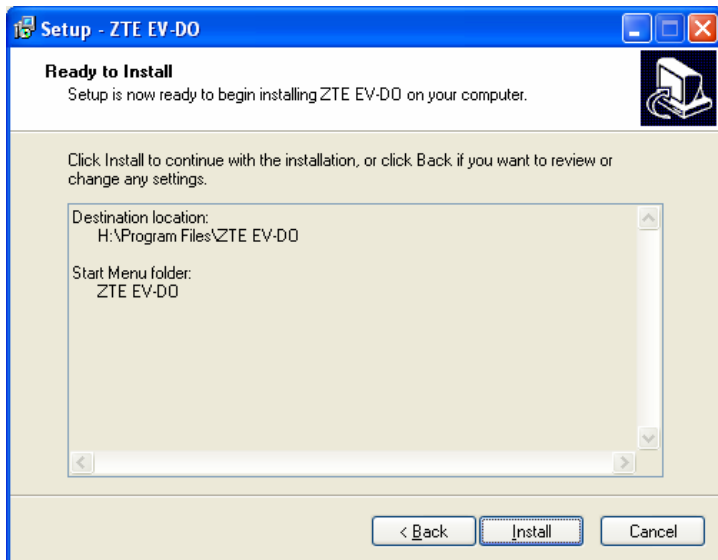
2、 Select the location where you want the program to be installed, and then click “Next”;



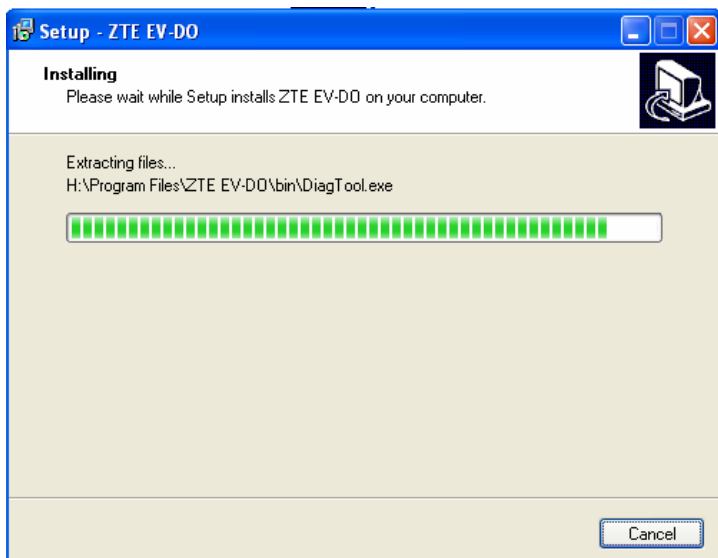
3、 Select Start Menu folder, and then click “Next”;



4、 When you see the window below, please click “Install”;



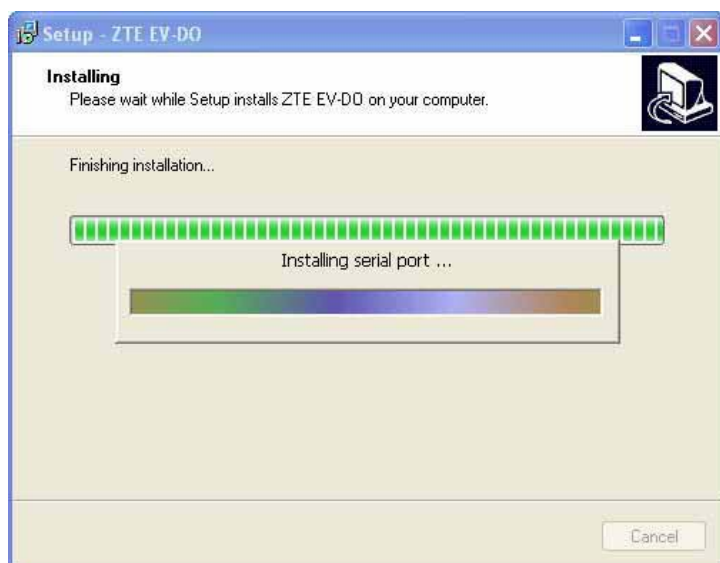
5、 Please wait for installation. This process will take a few minute;

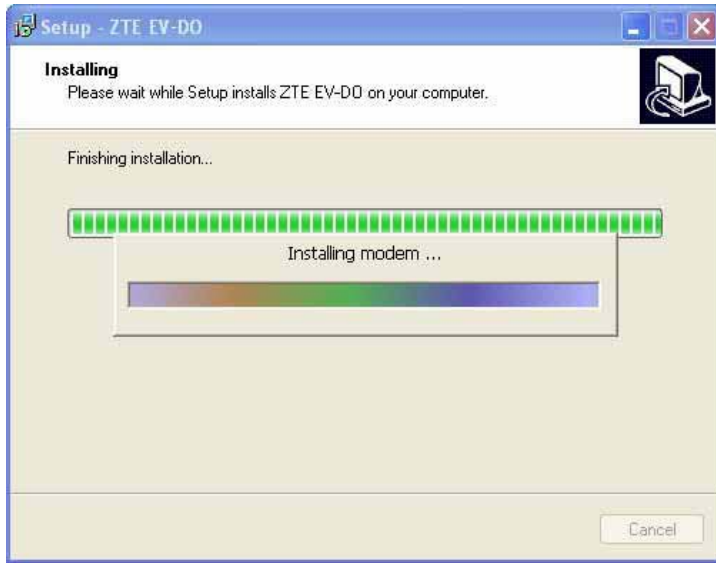


6、 Please insert the Data Terminal into USB interface if the system prompts you to insert the hardware (If it has been inserted, please unplug it and insert again.)

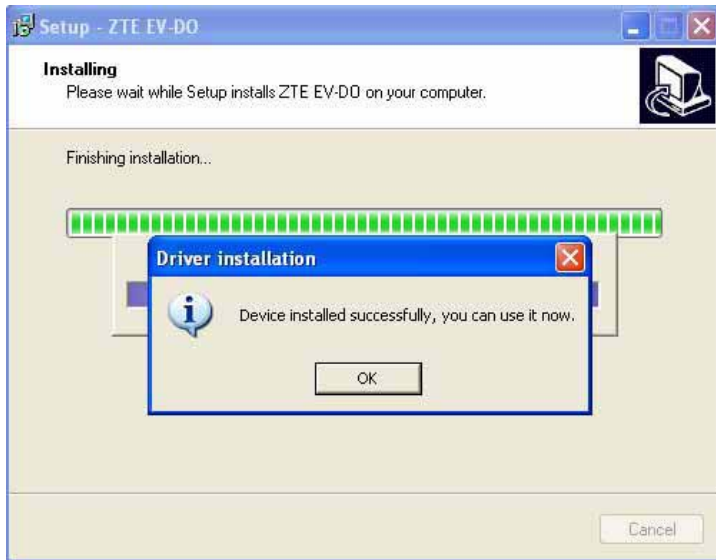


7、 The system shall find the new hardware and install the driver automatically. Just wait a minute.(Please ignore the prompt during the installation, such as “USB device not recognized” or “Your hardware might not be able to work normally because there is an error during the hardware installation.”)

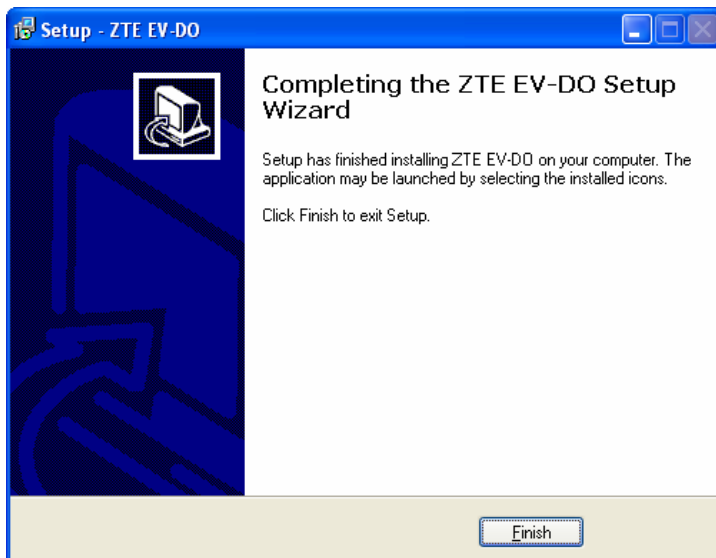




8、 The driver is installed successfully. Pleas click “OK”;

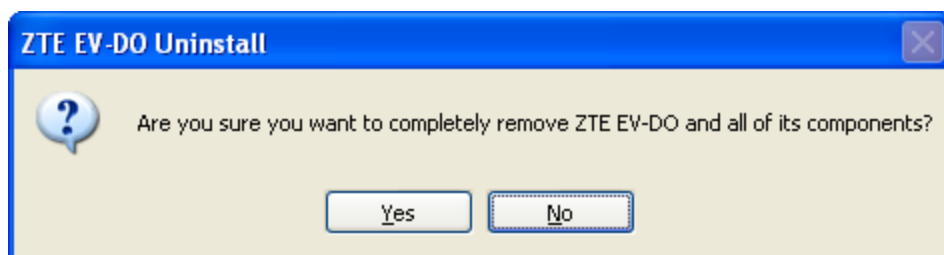


9、 Click “Finish” to close the last screen of the wizard. Now you can start the application for data terminal.

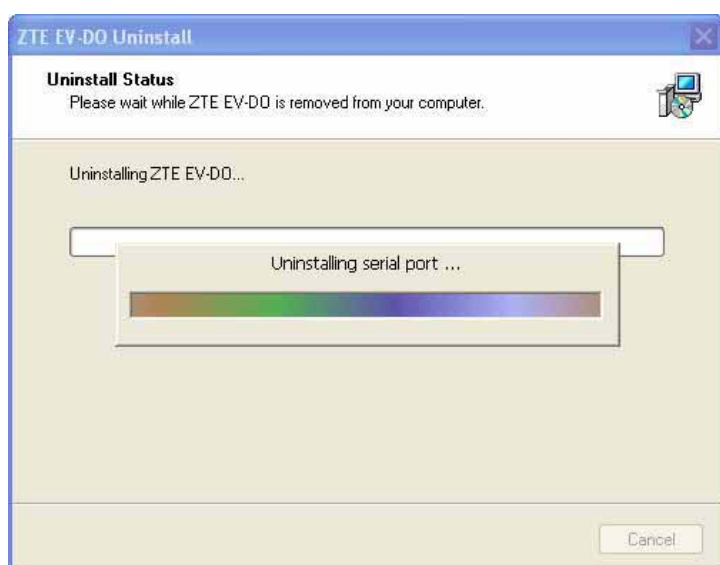


5.2.2 Uninstall

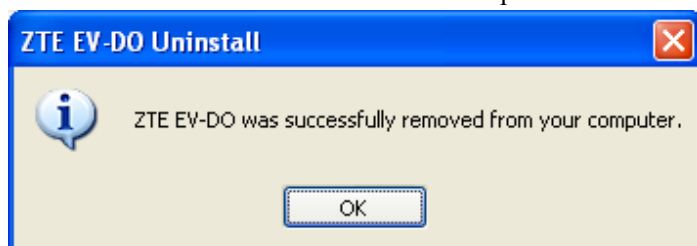
1、 Select Start -> Programs -> ZTE EV-DO -> Uninstall ZTE EV-DO. Click “Uninstall ZTE EV-DO”, and you will be asked if you want to remove the program. Click “Yes”;




2、 Please wait;

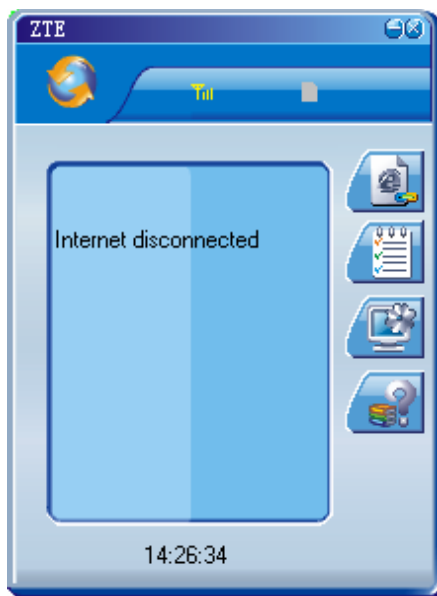


3、 Click “OK” when un-installation is completed.

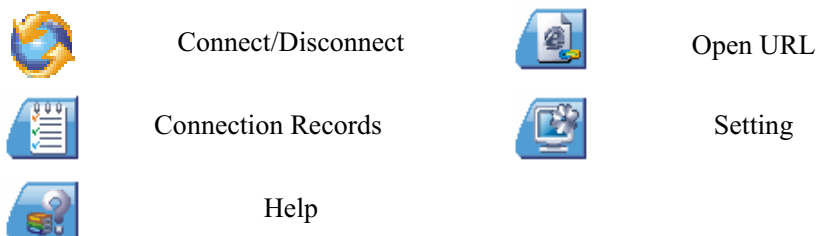


6. Run the Application










After the application is installed successfully, the application icon  will appear on your desktop. Double-click this icon or select from Start -> Programs -> ZTE EV-DO -> ZTE EV-DO. Run the application to display the following user interface.



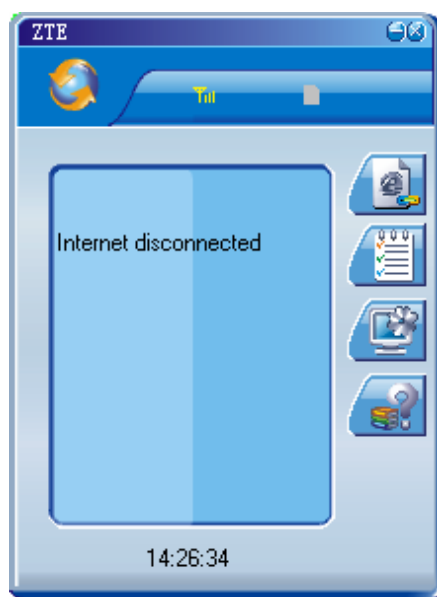
The icons on the interface are used to access the function, which indicate as below:





Status Bar:

	EV-DO Indication
	1X Indication
	Signal strength indication. The more bars, the stronger signals
	CDMA network unavailable
	Network Connection
	Sleep mode
	In Roaming
	No R-UIM card inserted
	R-UIM card inserted


7. Connect/Disconnect



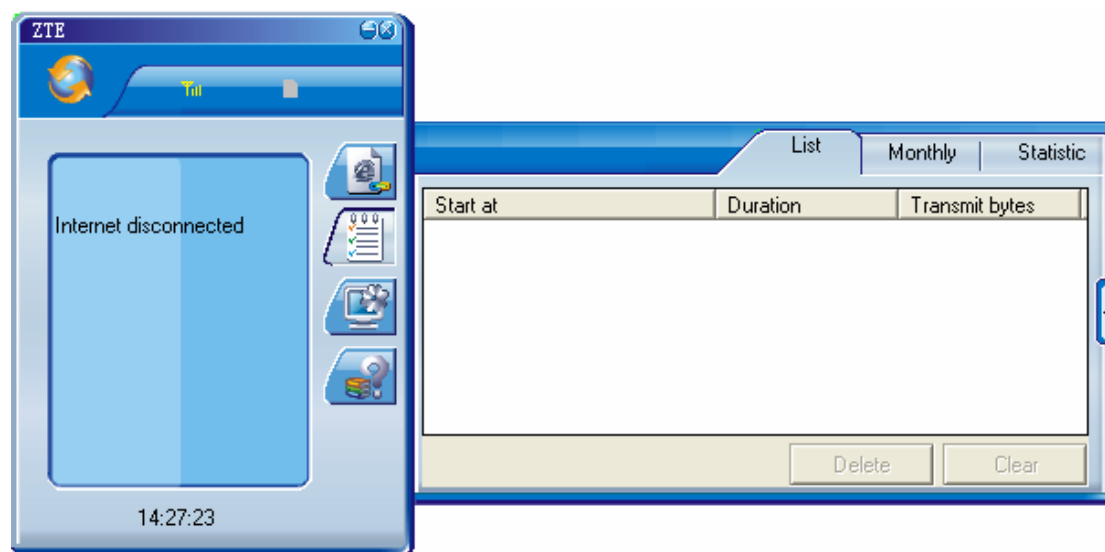
Connect


- ✧ Click  icon to set the relevant parameters. For details, please refer to Chapter 9 “Setting” for details;
- ✧ Click  icon at the left-up corner of the interface;
- ✧ After connecting to Internet, the current network information will appear on the interface. Double-click any place in the display area to view the connection records.

Disconnect

After connecting to Internet, click the rotating icon  at the left-up corner of the interface.

8. Connection Records



Click  icon to view connection records. Connection records save the previous relevant information including Start at, Duration and Transmit bytes, which help you know the status easily.

By switching among “List”, “Monthly” and “Statistic”, you could inquire the records every time, by month or by time.

Note:

The relevant information contained in connection records are just for user’s reference rather than the charging basis.

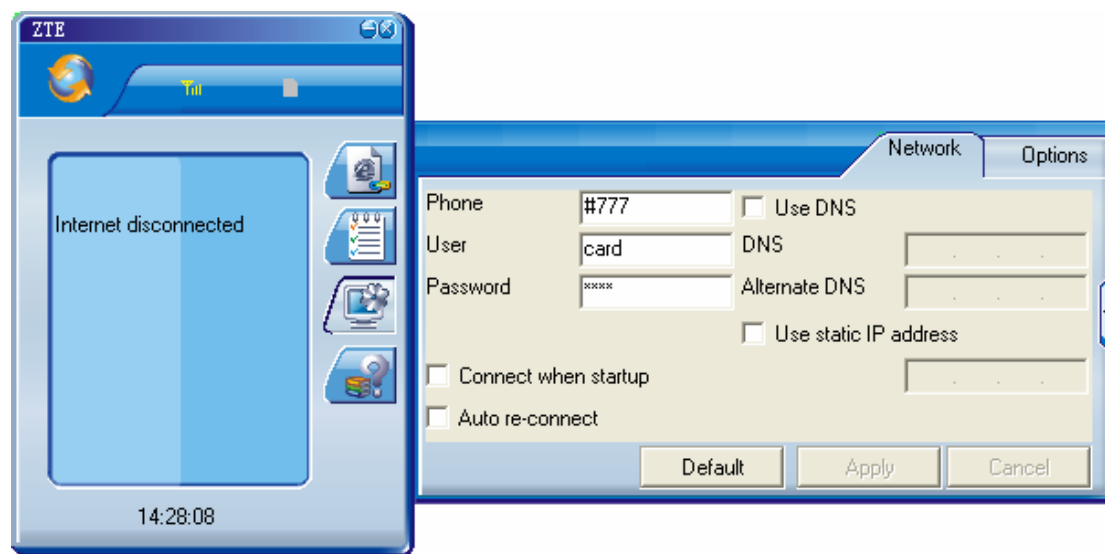
Delete Connection Records

Click “Delete” button to delete the records you have selected on the interface.


Clear Connection Records

Click “Clear” button to delete all the records.

9. Setting



Network Connection Setting

- ✧ Click  icon to set up the relevant parameters. After the setting, click “Apply” button to save the settings on the current interface.
- ✧ Click “Default” button and then “Apply” button to restore the settings on the current interface to factory default.

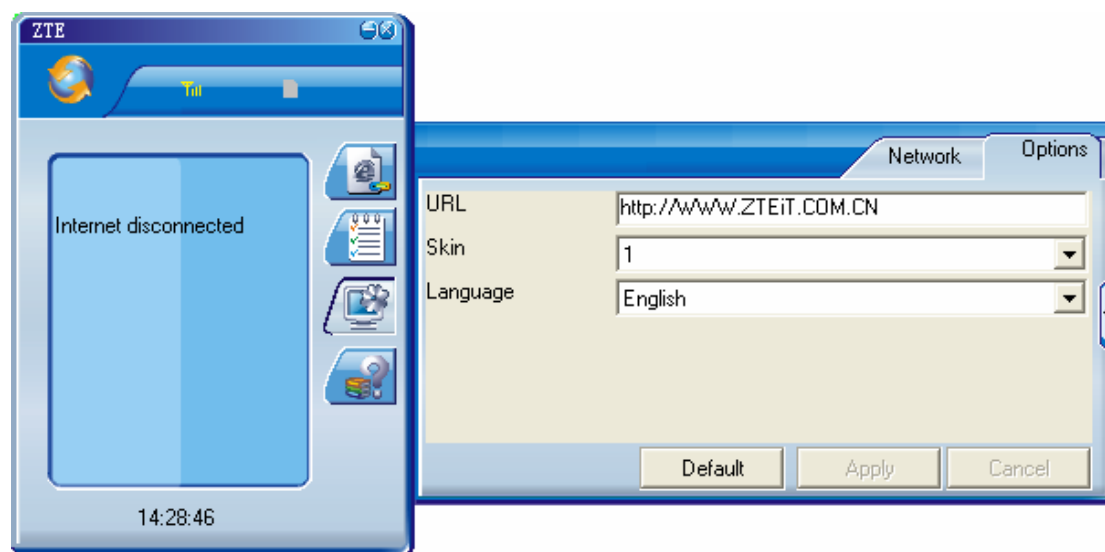
Note:

The default network setup parameters are as below. Different regions may have different network setup parameters, so please consult your local telecom operator.

Phone: #777

User: card

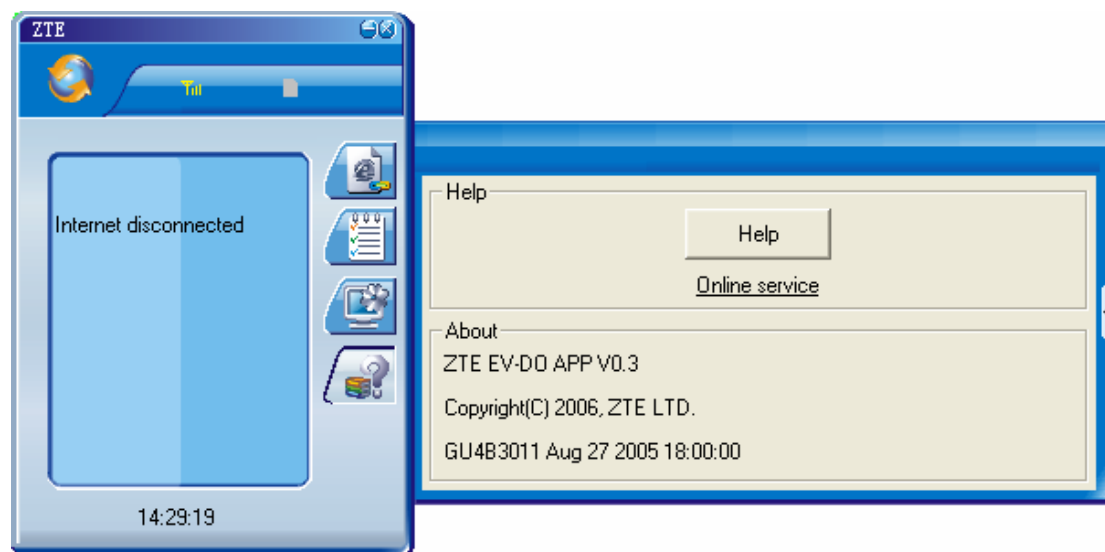
Password: card




Other Setting:

- ✧ Click “Options” to switch the interface, and you could set URL and select the skin, language, etc. After that, click “Apply” button to save the settings on the current interface .
- ✧ Click “Default” button and then “Apply” button to restore the settings on the current interface to factory default.


10. Help



Click  button to view the help file.

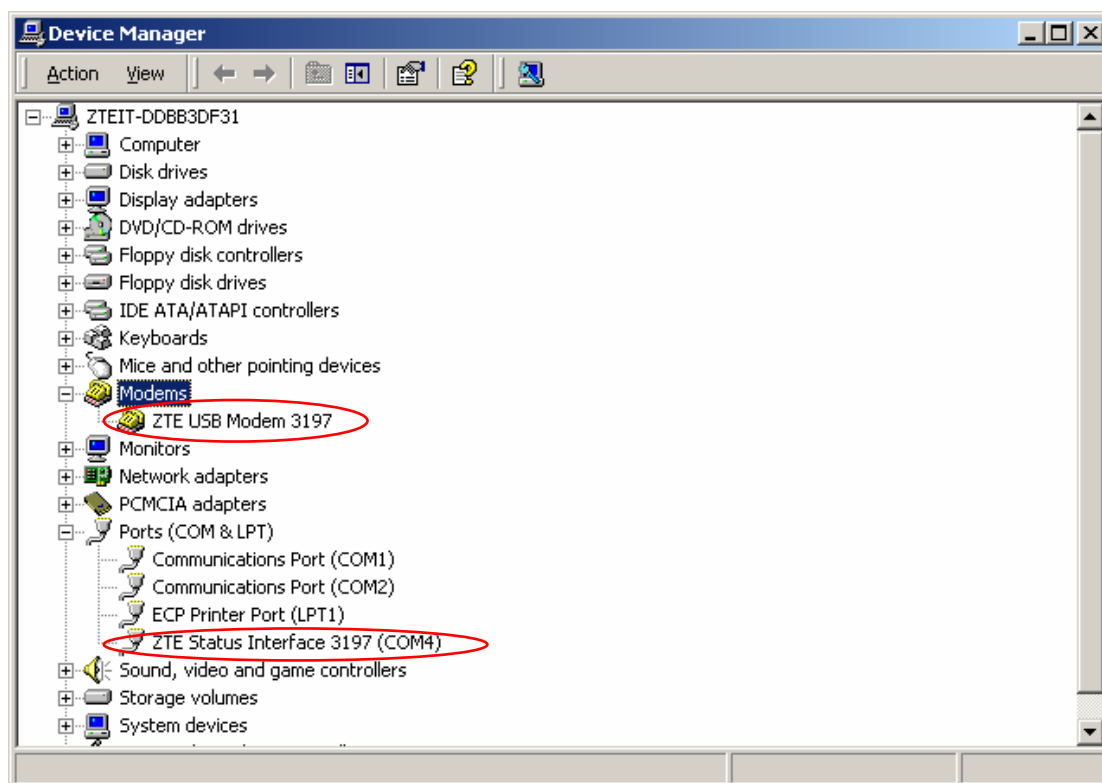
- ✧ Click “Help” button to view the relevant help file; click “Online service” to enter our company’s website.
- ✧ You could view the software and its version information under “About”.

11. Connect to the Website

Click  button to directly connect the website you set. For details on the website setting, please refer to Chapter 9 “Setting”.

12. Trouble-shooting

After the installation, go to device manager and find “ZTE Status Interface 3197” under “Modem” and “ZTE USB Modem 3197” under “Port”. If they are not found, please remove the software and reinstall.



Common Failures Table:

Failures	Causes	Solutions
Error occurs when running setup.exe file.	The setup file may be damaged.	Please download the program on our website WWW.ZTEIT.COM and reinstall it.
Open port failed.	Directly run the software before the Data Terminal is plugged in.	Close the software, plug in the Data Terminal and run it again.
	The port is occupied by other applications, such as “Hyper terminal”, or the software is already run.	Close relevant software and run the software again.
No R-UIM card.	R-UIM card is not inserted.	Insert R-UIM card.
	R-UIM card isn't inserted properly. Sometimes the front side and back side are confused.	Please refer to section 4.2. Properly insert R-UIM card.
	R-UIM card is damaged. Validate by using a CDMA terminal.	Replace R-UIM card.
No signal indicated.	Antenna is not connected to the Access Box.	Insert the antenna into the Data Terminal.
	Out of the network service area.	Make sure it is in the CDMA network service area.
	The antenna or RF component is damaged.	Replace relevant damaged parts.
Dialing failed	Wrong setting of parameters (Phone, User, Password)	Correct the parameter settings. Consult your service provider for details.
	Not enough money in R-UIM card.	Consult your service provider for details.
	Network congestion or failure.	Try again later.
Internet connection failure.	The Data Terminal is being connected. (It usually occurs when the Internet connection is immediately made after the call is dialed)	Reconnect.
	Poor network signal.	View signal strength indication and check if the antenna is properly inserted.

If the problems cannot be solved after the above handling, please call 86-755-2601555 or feed back your information directly by sending emails to zte_mobile@zte.com.cn for customer service. We will reply to you as soon as possible and provide you with high quality after-sales services.

***SAR Information**

The SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue. Device types AC8700 (FCC ID: Q78-AC8700) has also been tested against this SAR limit. The highest SAR value reported under this standard during product certification for use when properly worn on the body is 0.271 W/kg.