



SmartAX MT882 ADSL Router

User Manual

HUAWEI TECHNOLOGIES CO., LTD.



SmartAX MT882 ADSL Router User Manual

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Notice

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This product has been designed to comply with the requirements on environmental protection. For the proper storage, use and disposal of this product, national laws and regulations must be observed.

Safety Precautions



General Requirements:

- Before you install and use the device, read these safety precautions carefully and observe them during operation.
- During storage, transportation and operation of the device, keep the device dry.
- During storage, transportation and operation of the device, avoid collision and crash of the device.
- Never attempt to dismantle the device by yourself. In case of any fault, contact the appointed maintenance center for repair.
- Without prior written consent, no organization or individual is permitted to make any change to the structure or safety design of the device. Huawei Technologies Co., Ltd. is not liable to any consequences or legal issues due to such changes.
- While using the device, observe all applicable laws, directives and regulations, and respect the legal rights of other people.



Environmental Requirements:

- Place the device at a well-ventilated place. Do not dispose the device to direct sunlight.
- Keep the device clean and free of dusts.
- Place the device on a stable platform.
- Do not place any object on top of the device. Otherwise, the device may be too hot during operation. It can even be deformed or damaged by the heavy load.
- Keep at least 10 cm between the device and the closest object for heat dissipation.
- Do not place the device on or near any object that can easily catch fire, such as something made of rubber.
- Keep the device far away from any heat source or bare fire, such as a candle or an electric heater.
- Keep the device far away from any household appliance with strong magnetic field or electromagnetic field, such as a microwave oven or a refrigerator.



Operating Requirements:

- Do not let a child operate the device without guidance.
- Do not let a child play with the device or any accessory. Swallowing the accessories may lead to peril.
- Use the accessories provided or authorized by the manufacturer only.
- The power supply of the device shall meet the requirements of the input voltage of the device.
- Before plugging or unplugging any cable, shut down the device and disconnect it from the power supply.
- While plugging or unplugging any cable, make sure that your hands are completely dry.
- Do not tread on, pull or over-bend any cable. Otherwise, the cable may be damaged, leading to malfunction of the device.
- Do not use an old or a damaged power cable.
- During lightning weather, stop using the device and disconnect it from the power supply. Unplug the power plug and the ADSL twisted pair, to avoid lightning strike.
- If the device is not used for a long time, disconnect it from the power supply and unplug the power plug.
- In any of the following cases, stop using the device, disconnect it from the power supply and unplug the power plug immediately: there is smoke emitted from the device, or there is some abnormal noise or smell. Contact the specified maintenance center for repair.
- Avoid any object (such as metal shavings) from entering the device from the heat dissipation intakes.
- Do not scratch or abrade the shell of the device. This may lead to malfunctions of the device. The shed painting material may also lead to skin allergy.



Cleaning Requirements:

- Before cleaning the device, stop using it and disconnect it from the power supply.
- Use a piece of soft cloth to clean the device.

- Keep the power plug clean and dry. Using a dirty or wet power plug may lead to electric shock or other perils.

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Chapter 1 Introduction

This chapter describes the functions and the appearance of the SmartAX MT882 ADSL Router (hereinafter referred to as the MT882).

1.1 Functions and Features

The MT882 is a type of Asymmetric Digital Subscriber Line (ADSL) terminal. Using the MT882 and a telephone line, you can enjoy data, video and audio services at a high speed.

The features of the MT882 are:

- High transmission rate: The maximum downlink transmission rate is 24 Mbit/s. The maximum uplink transmission rate is 1.2 Mbit/s.
- Strong network adaptability: The MT882 can interconnect with multiple Digital Subscriber Line Access Multiplexers (DSLAMs).
- Strong maintainability: The MT882 provides a number of indicators, helping you to locate failures.
- Easy operation: The MT882 provides user-friendly interfaces for configuration and management.

1.2 Appearance

This section describes the appearance of the MT882.

1.2.1 Front Panel

Figure 1-1 shows the front panel of the MT882.

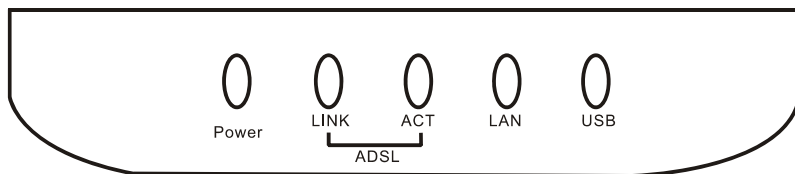


Figure 1-1 Front panel of the MT882

Note:

The figure of the front panel is only for your reference.

Table 1-1 describes the indicators on the front panel.

Table 1-1 Indicators on the front panel

Indicator	Status	Description
Power	Steady green light	The MT882 is powered on.
	Off	The MT882 is powered off.

Indicator	Status	Description
ADSL LINK	Blinking green light	The MT882 is being activated.
	On	The MT882 is activated.
	Blinking orange light	The built-in PPP dial-up software is dialing.
	Steady orange light	The built-in PPP dial-up software completes dialing successfully.
	Off	The telephone line is not connected or the MT882 is preparing for the next activation.
ADSL ACT	Blinking green light	Data is being transmitted over the ADSL interface.
	Off	No data is transmitted over the ADSL interface.
LAN	On	The Ethernet interface is connected.
	Blinking green light	Data is being transmitted over the Ethernet interface and the data rate is 10 Mbit/s.
	Blinking orange light	Data is being transmitted over the Ethernet interface and the data rate is 100 Mbit/s.
	Off	The Ethernet interface is not connected.

Indicator	Status	Description
USB	Steady green light	The USB interface is connected.
	Blinking green light	Data is being transmitted over the USB interface.
	Off	The USB interface is not connected.

Note:

If the MT882 fails to activate, it tries again after one minute. The ADSL LINK indicator is off during this period.

1.2.2 Rear Panel

Figure 1-2 shows the rear panel of the MT882.

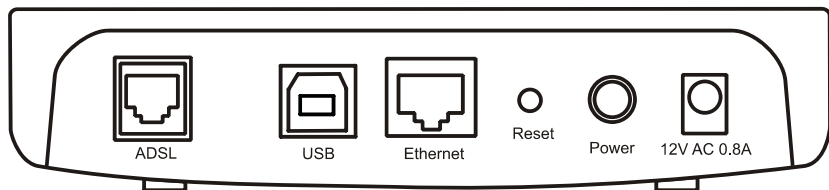


Figure 1-2 Rear panel of the MT882

 Note:

The figure of the rear panel is only for your reference.

Table 1-2 describes the interfaces and buttons on the rear panel.

Table 1-2 Interfaces and buttons on the rear panel

Interface/Button	Description
ADSL	It connects with the Modem interface of a splitter.
USB	It connects with a computer.
Ethernet	It connects with a computer or a switch.
Reset	It restores the default settings of the MT882. Once you press this button, all your customized settings will be lost. Be cautious with this operation.
Power	It powers on or off the MT882.
12V AC 0.8A	It connects with the power adapter.

Chapter 2 Installation of the MT882

This chapter introduces the installation of the MT882.

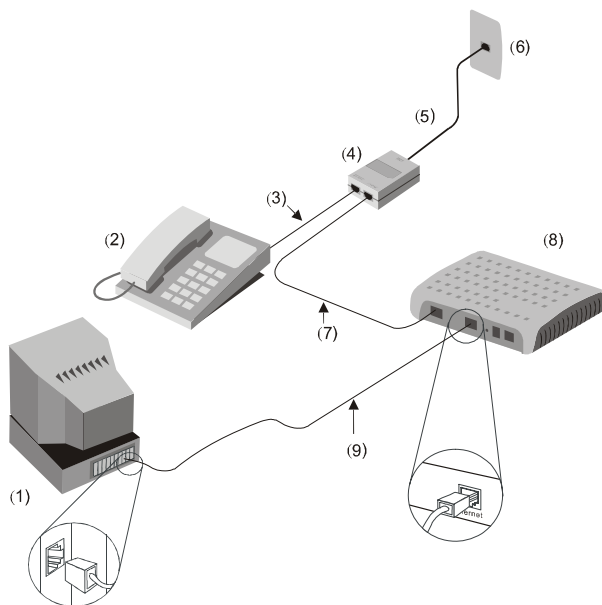
2.1 Preparation

Before installing the MT882, prepare the following components:

- Ethernet card: The MT882 communicates with a computer through an Ethernet card. Make sure that an Ethernet card is installed on the computer before connecting the MT882 with the computer.
- Splitter (optional): A splitter can separate the data signals from the voice signals being transmitted over a telephone line. Only with this component can you make a telephone call and access the Internet at the same time.

2.2 Connecting the MT882

You can connect the MT882 according to Figure 2-1.



- | | | |
|--------------------------|--------------------------|--------------------------|
| (1) PC | (2) Phone | (3) RJ-11 telephone line |
| (4) Splitter | (5) RJ-11 telephone line | (6) Phone jack |
| (7) RJ-11 telephone line | (8) MT882 | (9) RJ-45 Ethernet cable |

Figure 2-1 Connecting the MT882



Caution:

Before connecting the MT882, power off the MT882 and the computer.

Operation:

- 1) Connect the interfaces of the splitter with other devices by using a telephone line:
 - LINE interface --> telephone jack on the wall
 - MODEM interface --> ADSL interface of the MT882
 - PHONE interface --> telephone
- 2) Connect the Ethernet interface of the MT882 with the Ethernet interface of the computer by using a straight through cable.
- 3) Connect the MT882 to a power socket by using the provided power adapter.
- 4) Press the **Power** button of the MT882 to power on the MT882.
- 5) Check the Power indicator on the front panel of the MT882. If it is on, the MT882 is powered on.

2.3 Setting Up the Configuration Environment

You can configure the MT882 through the Web setup page. This chapter describes how to set up the configuration environment of the MT882.

2.3.1 Planning the Parameters

Before setting up the configuration environment, plan the following parameters.

Table 2-1 Parameters for the configuration environment

Item	Description
Username and password of the administrator of the MT882	Default: • Username: admin • Password: admin
LAN IP address and subnet mask of the MT882	Default: • IP address: 192.168.1.1 • Subnet mask: 255.255.255.0
IP address and subnet mask of the computer	Make sure that the IP address of the computer is in the same network segment as the LAN IP address of the MT882. For example: • IP address: 192.168.1.100 • Subnet mask: 255.255.255.0

2.3.2 Operation

Follow these steps to set up the configuration environment.

Step	To...	Do...
1	Connect the MT882	For details, see section 2.2 "Connecting the MT882."

Step	To...	Do...
2	Check and ensure that the proxy server is not used	Taking Internet Explorer 6.0 as an example: 1) Launch the Internet Explorer. 2) Choose Tools > Internet Options... to display the Internet Options dialog box. 3) Choose the Connections tab and click LAN Settings... 4) Deselect the Use a proxy server for your LAN (These settings will not apply to dial-up or VPN connections) checkbox.
3	Log in to the Web setup page	1) In the address bar of the Internet Explorer, enter http://192.168.1.1 (the default IP address of the MT882). 2) Press Enter to display the login page. 3) Enter the username and the password of the administrator. Then you can access the Web setup page.

 Note:

The computer must be set according to the parameters of the MT882. For details, see Chapter 4 "Service Configuration."

2.4 Web Setup Page

The Web setup page of the MT882 can be divided into two parts:

- The navigation tree: On the left of the page, it allows you to access different setup pages.
- Configuration area: On the right of the page, it displays the configuration data.

Chapter 3 Installation of the USB Driver

You need to install the USB driver on your PC before using the USB connection. The installation process of the USB driver varies on different systems. The following provides instructions for three systems: Linux, MAC OS 9/10, and Windows.

3.1 Installing the USB Driver in Linux

To install the USB driver in a Linux system, do as follows.

- 1) Start **RedHat 8.0**, and log in as root.
- 2) Copy the original codes to the **usb_driver_for_linux** directory.
- 3) Execute the following commands:

```
# cd usb_driver_for_linux  
# make  
# make install
```

Note:

usb_driver_for_linux is the file name where you store the driver.

- 4) Edit file located on `/etc/rc.d/rc.local`, append two lines as below:

```
insmod /usr/local/lib/trendchip/trendchip.o &>/dev/null &  
ifconfig eth1 192.168.1.2 up &>/dev/null &
```

 Note:

This step will make trendchip's driver be loaded automatically when system startup.

- 5) Create a new file named **ifcfg-eth1** in **`/etc/sysconfig/networking/device/`**. We assume that you already have an interface eth0. Add the following content in the file.

```
USERCTL=no  
PEERDNS=yes  
GATEWAY=192.168.1.1  
TYPE=Ethernet  
DEVICE=eth1  
HWADDR=00:aa:bb:cc:00:01  
BOOTPROTO=none  
NETMASK=255.255.255.0  
ONBOOT=no
```

IPADDR=192.168.1.2
NETWORK=192.168.1.0
BROADCAST=192.168.1.255

 Note:

This step will create a new Ethernet interface eth1 and configure this properties.

- 6) Create or modify the file named **resolv.conf** in **/etc/sysconfig/networking/profiles/default/**. Add the following content:

```
nameserver <ip of your primary DNS>  
nameserver <ip of your second DNS>
```

 Note:

This step is configuring your DNS setting. Note that <ip of your * DNS> is the actual IP address of the DNS which you should get from your ISP.

- 7) Create a new file named **ifcfg-eth1** in **/etc/sysconfig/network-scripts/**. Add the following content:
- ```
DEVICE=eth1
```

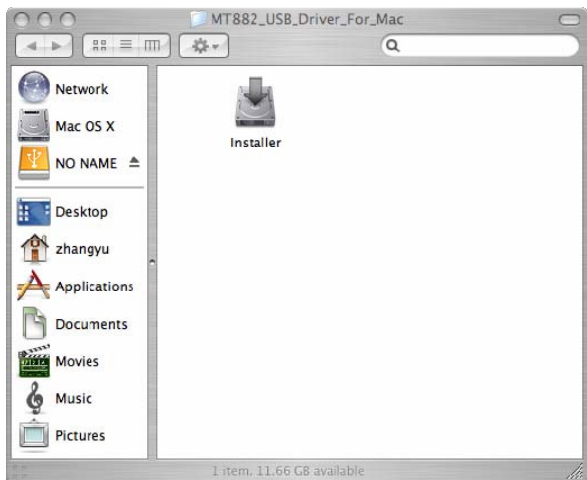
BOOTPROTO=none  
BROADCAST=192.168.1.255  
IPADDR=192.168.1.2  
NETMASK=255.255.255.0  
NETWORK=192.168.1.0  
ONBOOT=no  
USERCTL=no  
PEERDNS=no  
GATEWAY=192.168.1.1  
TYPE=Ethernet

8) Reboot PC and then plug and power on your ADSL modem.

## **3.2 Installing the USB Driver in MAC OS X**

To install the MT882 USB Driver on a MAC OS X system, do as follows.

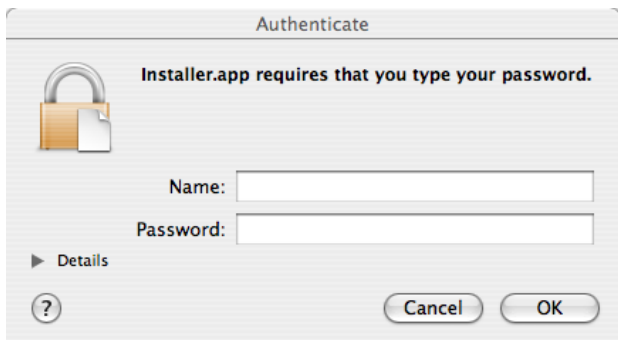
- 1) Run the MAC USB driver from the CD-ROM provided with MT882, and decompress it.



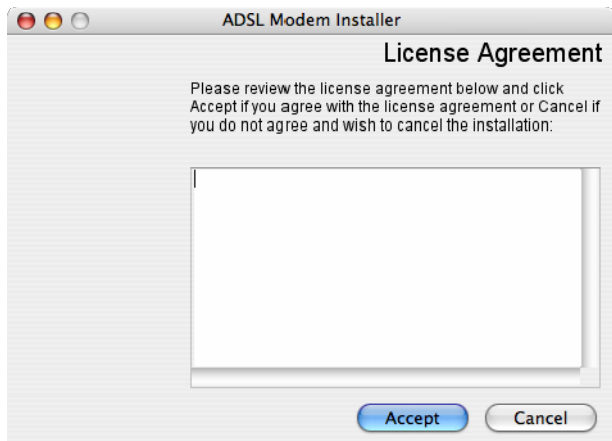
- 2) Double-click the Installer to start the installation.



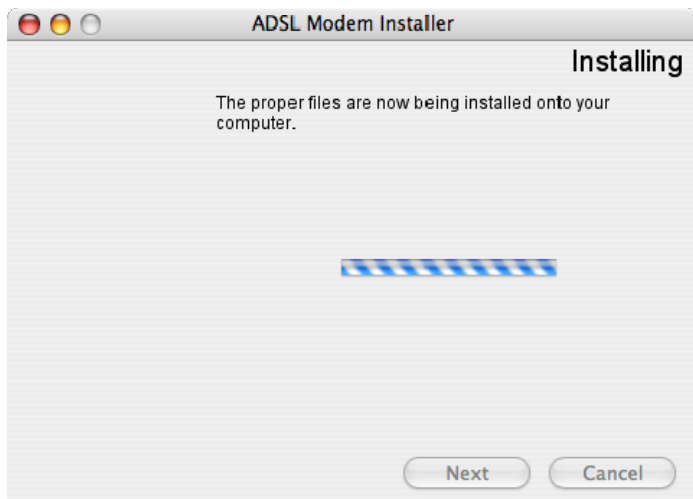
- 3) Click **Next** to display the **Authenticate** page.



- 4) Enter the name and password of the administrator, and click **OK**.



- 5) Read the information carefully and click **Accept**.



- 6) Select a destination folder to install and click **Next**.



- 7) Select **Restart now** and click **Finish** to restart your computer.

## 3.3 Installing the USB Driver in Windows Vista/XP/2K

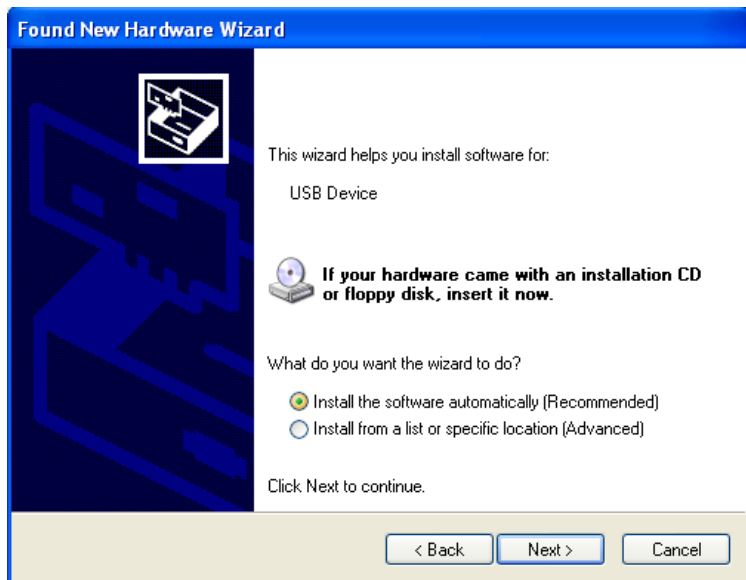
### 3.3.1 Installing the USB Driver in Windows System Automatically

To install the USB driver on a Windows system automatically, do as follows:

- 1) Connect the MT882 with your computer by using a USB cable.
- 2) Power on your MT882. The **Found New Hardware Wizard** dialog box is displayed.



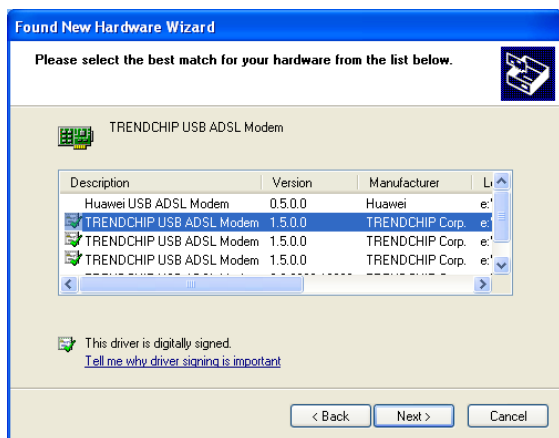
- 3) Select **No, not this time** and click **Next** to continue the installation.



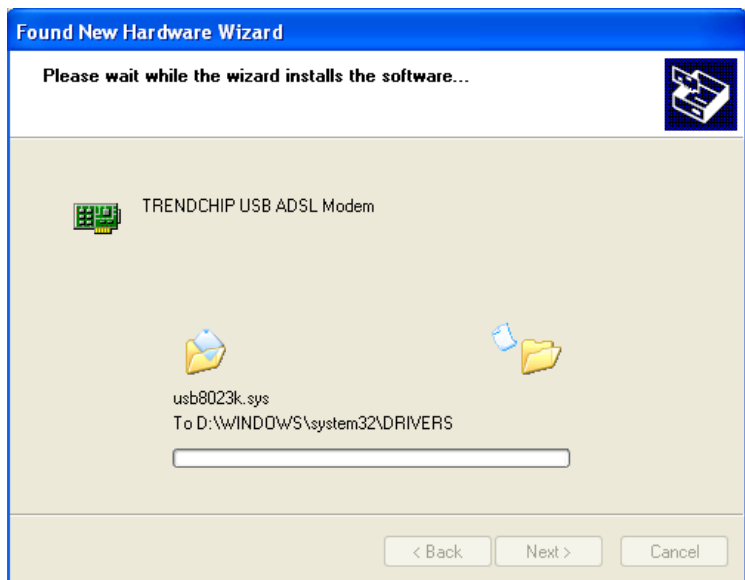
- 4) Put the CD-ROM provided with MT882 into your computer.
- 5) Select **Install the software automatically (Recommended)** and click **Next**. The system searches the driver automatically.



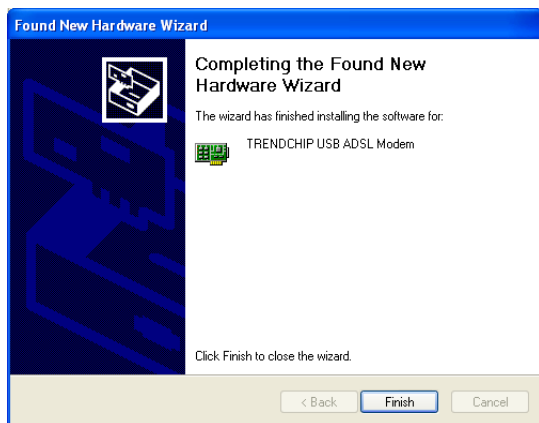
- 6) After the search completes, the system may display the following dialog box. Select the driver that matches the operating system of your PC from the list presented on this page.



- 7) Click **Next**. The system installs the driver automatically.



- 8) After the installation completes, the system will display the following dialog box.



- 9) Click **Finish** to exit the **Found New Hardware Wizard** dialog box.

### 3.3.2 Installing the USB Driver in Windows System Manually

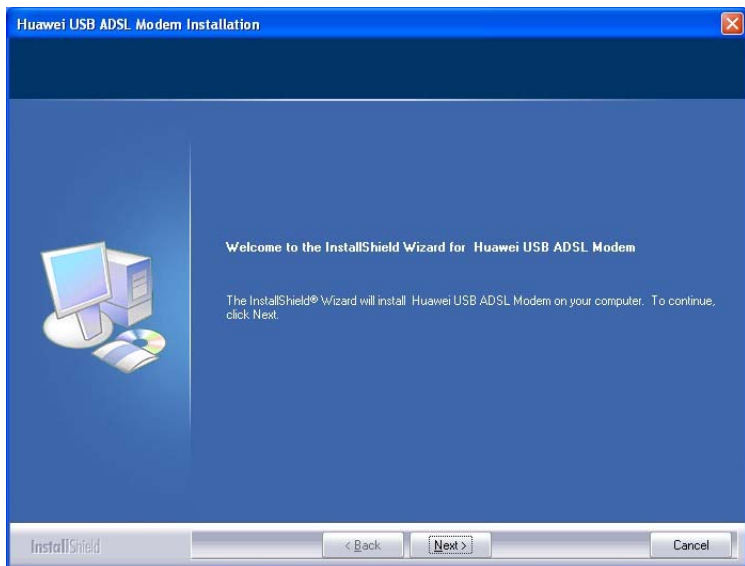
To install the USB driver on a Windows system manually, do as follows:

- 1) Connect the MT882 with your computer by using a USB cable.
- 2) Power on your MT882. The **Found New Hardware Wizard** dialog box is displayed.

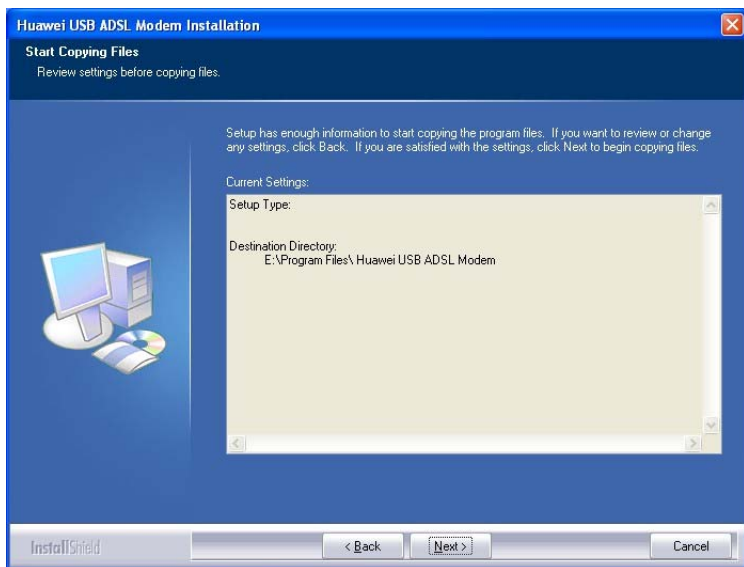


- 3) Click **Cancel** to exit the dialog box.

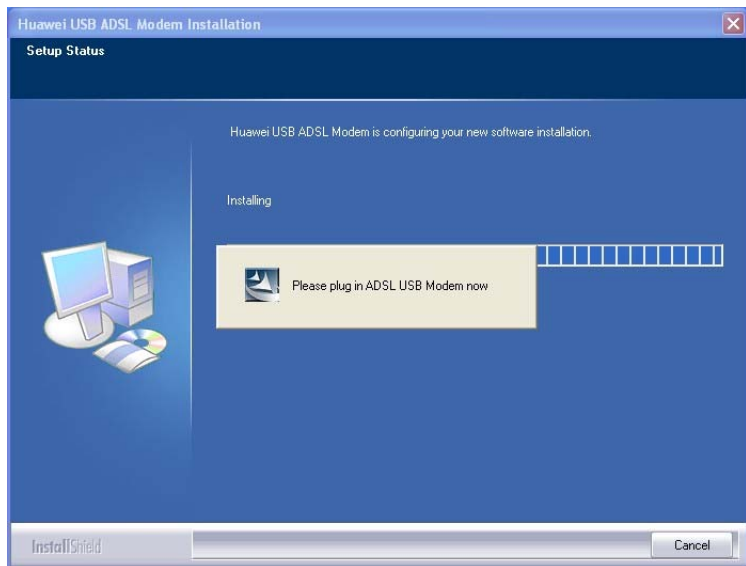
- 4) Double-click **Setup.exe** on the CD-ROM provided with MT882 to display the **Huawei USB ADSL Modem Installation** dialog box.



5) Click **Next** to continue the installation.



- 6) Click **Next**. The system installs the driver automatically.



- 7) After the installation completes, the system will exit the **Huawei USB ADSL Modem Installation** dialog box.

# Chapter 4 Service Configuration

This chapter introduces how to configure the MT882.

---

## Note:

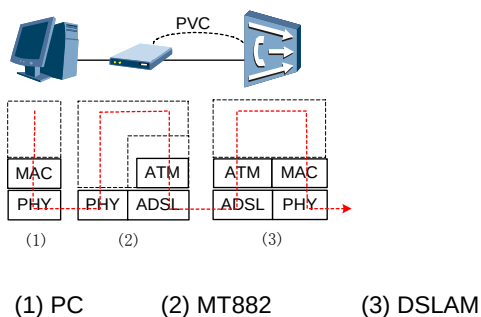
The figures in the following configuration operations are only for your reference.

---

## 4.1 Configuration Method

### 4.1.1 Protocol Model

Figure 4-1 shows the protocol model for the connection between the MT882 and the DSLAM at the office end.



**Figure 4-1** Protocol model

The data between the MT882 and the DSLAM are transmitted in the Asynchronous Transfer Mode (ATM). To configure the MT882 for different services, you need to configure the Permanent Virtual Channel (PVC) and other parameters.

### 4.1.2 Steps

The steps to configure the service modes are as follows.

| Step                                                              | To...                                   | Do...                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                                                                 | Establish the configuration environment | See section 2.3 "Setting Up the Configuration Environment."                                                                                                                                                                                                                                       |
| 2                                                                 | Configure the MT882                     | <ol style="list-style-type: none"><li>1) Choose the PVC to be configured.</li><li>2) Choose the service mode of the PVC and configure the parameters of the PVC.</li><li>3) Configure other options, such as the DHCP function.</li><li>4) Save the configuration and reboot the MT882.</li></ol> |
| 3                                                                 | Configure your computer                 | Configure the parameters of the Ethernet card on your computer according to the service mode of the MT882. Alternatively, install the dial-up software in the computer.                                                                                                                           |
| <b>Note:</b><br><i>DHCP = Dynamic Host Configuration Protocol</i> |                                         |                                                                                                                                                                                                                                                                                                   |

## 4.2 Service Modes of the MT882

The MT882 supports multiple service modes. To choose a proper service mode, you need to take the DSLAM settings into consideration. Table 4-1 lists the available service modes.

**Table 4-1** Service modes of the MT882

| Service Mode | Working Method                                                                                                                                                                                                                | Configuration                                    |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Bridge       | <ul style="list-style-type: none"><li>Take the MT882 as bridge equipment.</li><li>Use the PPP dial-up software of the computer to dial a number.</li></ul>                                                                    | Refer to 4.3 "Configuring the Pure Bridge Mode". |
| PPPoE        | <ul style="list-style-type: none"><li>Take the MT882 as a router.</li><li>Use the built-in PPP dial-up software of the MT882 to dial a number.</li><li>Use the PPPoE encapsulation mode to encapsulate the packets.</li></ul> | Refer to 4.4 "Configuring the PPPoE Mode".       |
| PPPoA        | <ul style="list-style-type: none"><li>Take the MT882 as a router.</li><li>Use the PPP dial-up software of the MT882 to dial a number.</li><li>Use the PPPoA encapsulation mode to encapsulate the packets.</li></ul>          | Refer to 4.5 "Configuring the PPPoA Mode".       |

| Service Mode                                                                                                                                                          | Working Method                                                                                                                                                                                                                                                        | Configuration                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| RFC2684B                                                                                                                                                              | <ul style="list-style-type: none"> <li>Take the MT882 as a router.</li> <li>The MT882 obtains an IP address from DHCP server or uses the static public IP to access the Internet.</li> <li>Use the RFC2684B encapsulation mode to encapsulate the packets.</li> </ul> | Refer to 4.6 "Configuring the RFC2684B Mode".      |
| RFC2684(IPoA)                                                                                                                                                         | <ul style="list-style-type: none"> <li>Take the MT882 as a router.</li> <li>The MT882 uses the static public IP address to access the Internet.</li> <li>Use the IPoA encapsulation mode to encapsulate the packets.</li> </ul>                                       | Refer to 4.7 "Configuring the RFC2684(IPoA) Mode". |
| <b>Note:</b><br><i>ISP = Internet Service Provider</i><br><i>PPPoE = PPP over Ethernet</i><br><i>PPPoA = PPP over ATM</i><br><i>IPoA = Internet Protocol over ATM</i> |                                                                                                                                                                                                                                                                       |                                                    |



### Caution:

Some settings are validated only after the MT882 is rebooted. Follow the instructions in the configuration page.

## 4.3 Configuring the Pure Bridge Mode

In the pure bridge mode, the MT882 functions as a bridge. You need to install the PPP dial-up software in your computer to access the Internet.

This section describes how to configure the MT882 to work in the pure bridge mode. It also describes how to configure your computer to access the network through the MT882.

### 4.3.1 Preparation

Table 4-2 lists the configuration items.

**Table 4-2** Configuration items for the pure bridge mode

| Item                                        | Configuration                                                                                                                                        |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| PVC Mode                                    | Bridge                                                                                                                                               |
| Active                                      | Yes                                                                                                                                                  |
| VPI/VC1                                     | Provided by the ISP                                                                                                                                  |
| Encapsulation                               | RFC2684                                                                                                                                              |
| PPP dial-up software                        | Install the PPP dial-up software to your computer to access the Internet (The Windows XP operation system is provided with the PPP dial-up software) |
| Username and password for the PPPoE dial-up | Provided by the ISP                                                                                                                                  |

## 4.3.2 Steps

You need to configure the MT882 and your computer in turn.

### I. Configuring the MT882

The steps are as follows:

- 1) Log in to the Web setup page of the MT882. For details, see section 2.3 "Setting Up the Configuration Environment."
- 2) Choose **Basic > WAN Setting** in the navigation tree to display the WAN configuration page.
- 3) Select the PVC, which needs configuring, from the **PVC** drop-down menu of the WAN configuration page.
- 4) Select **Bridge** from the **Mode** drop-down menu. Set the **Active** to **Yes**. Configure relevant parameters according to the values in the Table 4-2.
- 5) Click **Submit**.
- 6) Select **Tools > Reboot** in the navigation tree.
- 7) Select **Current Settings** in the **Reboot** page. Click **Restart** to save the configuration.

### II. Configuring Your Computer

After configuring the MT882, install the PPP dial-up software in your computer to access the network.

The Windows XP (Professional) operating system has built-in PPPoE dial-up software. Take the Windows XP system as an example, the steps to set up a PPP dial-up connection are as follows:

- 1) Choose **Start > All Programs > Accessories > Communications > Network Connections**.

- 2) Click **Create a new connection** in the displayed page.
- 3) Click **Next** in the **New Connection Wizard** dialog box.
- 4) Choose **Connect to the Internet** and click **Next**.
- 5) Choose **Set up my connection manually** and click **Next**.
- 6) Choose **Connect using a broadband connection that requires a username and password** and click **Next**.
- 7) Enter the name of the connection you are creating. Then click **Next**.
- 8) Choose **Anyone's use** or **My use only** and click **Next**.
- 9) Enter the username and password. Then click **Next**.
- 10) Click **Finish**.

## 4.4 Configuring the PPPoE Mode

In the PPPoE mode, the MT882 uses the built-in PPP dial-up software for dialing. The MT882 functions as a router to connect your computer to the network.

This chapter describes how to configure the MT882 to work in the PPPoE mode. It also describes how to configure your computer to access the network through the MT882.

### 4.4.1 Preparation

Table 4-3 lists the configuration items.

**Table 4-3** Configuration items for the PPPoE mode

| Item     | Configuration |
|----------|---------------|
| PVC mode | Routing       |

| Item                                        | Configuration          |
|---------------------------------------------|------------------------|
| Active                                      | Yes                    |
| Default route                               | Enable                 |
| NAT                                         | Enable                 |
| VPI/VC1                                     | Provided by the ISP    |
| Encapsulation                               | PPPoE                  |
| Username and password for the PPPoE dial-up | Provided by the ISP    |
| Service Name                                | Specified by users     |
| RIP                                         | Disabled               |
| DHCP mode of the MT882                      | Enable the DHCP server |

---

 **Note:**

After the DHCP server is enabled, the MT882 can assign a private IP address to the computer.

---

## 4.4.2 Steps

### I. Configuring the MT882

The steps are as follows:

- 1) Log in to the Web setup page. For details, see section 2.3 "Setting Up the Configuration Environment."

- 2) Choose **Basic > WAN Setting** in the navigation tree to display the WAN configuration page.
- 3) Choose the PVC to be configured and click the editing icon.
- 4) Select **Routing** in the **PVC Mode** field.
- 5) Select **PPPoE** from the **Encapsulation** drop-down menu.  
Set the **Active** to **Yes**. Configure relevant parameters according to the values in the Table 4-3.
- 6) Click **Submit**.
- 7) Choose **Basic > DHCP** in the navigation tree to display the **DHCP configuration** page.
- 8) Choose **DHCP Server** and click **Submit**.
- 9) Choose **Tools > Reboot** in the navigation tree.
- 10) Select **Current Settings** in the **Reboot** page. Click **Restart** to save the configuration.

## II. Configuring Your Computer

Configure the Ethernet card on your computer, so that your computer can automatically obtain such information as the IP address, gateway and Domain Name Server (DNS).

### 4.5 Configuring the PPPoA Mode

In the PPPoA mode, the MT882 uses the built-in PPP dial-up software for dialing.

It is similar to configure the PPPoA mode as to configure the PPPoE mode. The differences are: if configure the PPPoA, select **PPPoA** from the **Encapsulation** drop-down menu; if configure the

PPPoE, select **PPPoE** from the **Encapsulation** drop-down menu. For details, refer to 4.4 "Configuring the PPPoE Mode".

## 4.6 Configuring the RFC2684B Mode

This section mainly introduces how to configure the MT882 in the RFC2684B mode and how to configure your computer to access the network through the MT882.

### 4.6.1 Preparation

Table 4-4 shows the configuration preparation.

**Table 4-4** Configuration for the RFC2684B mode

| Name                      | Configuration                                                                          |
|---------------------------|----------------------------------------------------------------------------------------|
| PVC mode                  | Routing                                                                                |
| Active                    | Yes                                                                                    |
| Default route             | Enable                                                                                 |
| NAT                       | Enable                                                                                 |
| VPI/VCI                   | Provided by the ISP                                                                    |
| Encapsulation             | RFC2684B                                                                               |
| IP address/subnet mask    | IP address and subnet mask for the MT882 to access the network are provided by the ISP |
| IP address of the gateway | IP address of the gateway for the MT882 to access the network is provided by the ISP   |
| RIP                       | Disabled                                                                               |

| Name                   | Configuration          |
|------------------------|------------------------|
| DHCP mode of the MT882 | Enable the DHCP server |

## 4.6.2 Steps

### I. Configuring the MT882

The steps are as follows:

- 1) Log in to the Web setup page. For details, see section 2.3 "Setting Up the Configuration Environment."
- 2) Choose **Basic > WAN Setting** in the navigation tree to display the WAN configuration page.
- 3) Choose the PVC to be configured and click the editing icon.
- 4) Select **Routing** in the PVC **Mode** field.
- 5) Select **RFC2684B** from the **Encapsulation** drop-down menu. Set the **Active** to **Yes**. Configure relevant parameters according to the values in the Table 4-4.
- 6) Click **Submit**.
- 7) Choose **Basic > DHCP** in the navigation tree to display the DHCP configuration page.
- 8) Choose **DHCP Server** in the DHCP configuration page. Click **Submit**.
- 9) Select **Tools > Reboot** in the navigation tree.
- 10) Select **Current Settings** in the **Reboot** page. Click **Restart** to save the configuration.

## II. Configuring Your Computer

Configure the Ethernet card on your computer, so that your computer can automatically obtain such information as the IP address, gateway and DNS.

### 4.7 Configuring the RFC2684(IPoA) Mode

It is similar to configure the RFC2684(IPoA) mode as to configure the RFC2684B mode. The differences are: if configure the RFC2684(IPoA) mode, select **RFC2684(IPoA)** from the **Mode** drop-down menu; if configure the **RFC2684B** mode, select **RFC2684B** from the **Encapsulation** drop-down menu. For details, refer to 4.6 "Configuring the RFC2684B Mode".

# Chapter 5 Other Configurations

## 5.1 TR069 Configuration

Click **TR069** of **Advanced** in the navigation bar to display the **TR069 Configuration** page.

### 5.1.1 Configuration Parameters

Table 5-1 shows the parameter explanation of the **TR069 Configuration** page.

**Table 5-1** Parameters in the **TR069 Configuration** page

| Item               | Configuration                                                                                                                                                                                                                                                                                                |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Login ACS          | <ul style="list-style-type: none"><li>• <b>URL:</b> Enter the Internet address of management server.</li><li>• <b>User Name:</b> Enter the username used while accessing management server.</li><li>• <b>Password:</b> Enter the password used while accessing management server.</li></ul>                  |
| Connection Request | <ul style="list-style-type: none"><li>• <b>Connection Request Path/Port:</b> Enter the connection request path and port.</li><li>• <b>Connection Request Username:</b> Enter the connection request username.</li><li>• <b>Connection Request Password:</b> Enter the connection request password.</li></ul> |

| Item            | Configuration                                                                                                                                                                                                                                                                                        |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Periodic Inform | <ul style="list-style-type: none"> <li>• <b>Periodic Inform:</b> Select <b>Activated</b> to enable the function of periodical information. Select <b>Deactivated</b> to disable the function.</li> <li>• <b>Interval:</b> Enter the time interval of implementing periodical information.</li> </ul> |

### 5.1.2 Save

- Click **Submit** to save the settings.
- To save this configuration changes permanently, enter the **Tools > Reboot** page, select **Current Settings** and click **Restart** to save new settings.

## 5.2 Changing the LAN IP Address

You can access the Web setup page of the MT882 through the LAN IP address of the MT882. The MT882 has a default LAN IP address. To change it, follow the steps described below:

- 1) Log in to the **Web setup page** of the MT882.  
For details, see section 2.3 "Setting Up the Configuration Environment."
- 2) Choose **Basic > LAN Setting** in the navigation tree to display the **LAN configuration** page.
- 3) Enter the IP address and the subnet mask. Click **Submit**.
- 4) Confirm the operation according to the prompt in the page.

---

 **Note:**

- You need to log in again to use the Web setup page after configuring the LAN IP address of the MT882.
  - Ensure that the IP address of the computer and the IP address of the MT882 are in the same segment.
- 

## 5.3 Changing the Administrator Password

The Web manager of the MT882 provides the password protection function to prevent illegal users from changing the configuration of the MT882. The username and the password of the MT882 administrator can be changed as follows:

- 1) Log in to the Web setup page of the MT882. For details, see section 2.3 "Setting Up the Configuration Environment."
- 2) Choose **Tools > System Management** in the navigation tree to display the system management page.
- 3) Find the username in the system management page. Click the editing icon to display the password configuration page.
- 4) Enter the new password in the password configuration page. Click **Submit**.

## 5.4 Restoring the Default Settings



### Caution:

When you restore the default settings, the customized data may be lost.

---

There are two methods to restore default settings:

#### I. Using the Reset Button

The steps are as follows:

- 1) Find the **Reset** button on the rear panel of the MT882.
- 2) Use a pin to press the **Reset** button and then release it.

#### II. Using the Web Manager

The steps are as follows:

- 1) Choose **Tools > Reboot** in the navigation tree to display the **Reboot** page.
- 2) Choose **Factory Default Settings**.
- 3) Click **Restart**.

## 5.5 Firmware Upgrade

Select **Tools > Firmware Upgrade** in the navigation tree. Input the correct path of the upgrade file and then click **Upload**. It may take a few minutes to finish the upgrade.

---

 **Note:**

Please do not power off the device during the upgrade. The process will complete in a few minutes.

---

# Chapter 6 Troubleshooting

## 6.1 Fixing Common Problems

| Problem                           | Solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The Power indicator is not on     | <ul style="list-style-type: none"><li>• Ensure that the power adapter matches the MT882.</li><li>• Ensure that the MT882 is connected to the power supply properly.</li><li>• Ensure that the Power button is pressed.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| The ADSL LINK indicator is not on | <ul style="list-style-type: none"><li>• Ensure that the ADSL line is connected properly.</li><li>• Ensure that the telephone line works normally. Run the check by using a telephone.</li><li>• Ensure that there is no capacitor or diode in the connection box.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                         |
| The LAN indicator is not on       | <ul style="list-style-type: none"><li>• Ensure that only the network cable provided with the MT882 is used.</li><li>• Ensure that the cables are connected properly.</li><li>• Ensure that the Ethernet card indicator of your computer is on.</li><li>• Ensure that the Ethernet card works normally. Check as follows:<br/>Right-click <b>My Computer</b> to choose <b>Properties</b>.<br/>Choose <b>Hardware &gt; Device Manager</b>.<br/>Check whether there is any device marked with ? or ! under <b>Network Adapters</b>.<br/>If yes, delete and re-install it. Alternatively, re-insert the Ethernet card into a different slot.<br/>If the problem persists, change the Ethernet</li></ul> |

| Problem                         | Solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                 | <p>card.</p> <p><b>Note:</b><br/> <i>"Network adapter" refers to a network interface card. In this context, it is the Ethernet card of your computer.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| The Internet cannot be accessed | <ul style="list-style-type: none"> <li>• Ensure that all the previous problems are addressed.</li> <li>• Ensure that the PVC parameters provided by the ISP are not changed. Otherwise, restore the default settings.</li> <li>• Ensure that the dial-up software is correctly installed and properly set in your computer.</li> <li>• Ensure that you have entered the right username and password.</li> <li>• If you still cannot access the Internet after dial-up, check whether the proxy server on your IE is correctly configured. The proxy server must be disabled.</li> <li>• Try different Web sites, in case some Web site fails.</li> <li>• Stop the dialing connection and retry after 5 minutes.</li> </ul> |

## 6.2 FAQs

### I. Why does the ADSL connection break so often?

Many possible factors may cause this problem, such as faults in your ISP's access server, line disconnection and line disturbance. You can check as follows:

- 1) Make sure that the ADSL line is connected properly.

- 2) Keep the MT882 away from appliances with strong electric fields or magnetic fields, such as a microwave oven and a refrigerator.
- 3) Make sure that no telephone or fax machine is connected directly to the ADSL line.
- 4) Replace the Ethernet card using the Industry Standard Architecture (ISA) bus with a 10/100M Ethernet card using the Peripheral Component Interconnect (PCI) bus. Install the latest driver.
- 5) Find help on <http://www.huawei.com>.

## **II. What should I do if the username and the password of the Web setup page are forgotten?**

If you forget the username and the password of the Web setup page, restore the default settings of the MT882. Then use the default username and password to access the Web manager.

For restoring the default settings, see section 5.4 "Restoring the Default Settings." For the default username and password of the MT882, see section 8.1 "Default Settings."

## Chapter 7 Technical Specifications

| Main Technical Specifications |                  |                                                                                                                                         |
|-------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Standard                      | ADSL standard    | ITU G.992.1 (G.dmt) Annex A<br>ITU G.994.1 (G.hs)<br>ANSI T1.413 Issue 2                                                                |
|                               | ADSL2 standard   | ITU G.992.3 (G.dmt.bis) Annex A<br>ITU G.992.3 (G.dmt.bis) Annex M                                                                      |
|                               | ADSL2+ standard  | ITU G.992.5 Annex A<br>ITU G.992.5 Annex M                                                                                              |
| Data transfer rate            | G.dmt<br>T1.413  | <ul style="list-style-type: none"> <li>The maximum downlink rate is 8 Mbit/s</li> <li>The maximum uplink rate is 896 kbit/s</li> </ul>  |
|                               | G.992.5 (ADSL2+) | <ul style="list-style-type: none"> <li>The maximum downlink rate is 24 Mbit/s</li> <li>The maximum uplink rate is 1.2 Mbit/s</li> </ul> |

| <b>Physical Features and Environment Requirements</b> |                         |
|-------------------------------------------------------|-------------------------|
| Power consumption                                     | < 5 W                   |
| Power adapter output                                  | 12 V AC 0.8 A           |
| Temperature of the working environment                | 0°C–40°C (32°F–104°F)   |
| Humidity of the working environment                   | 5%–95% (non-condensing) |
| Dimensions (L × W × H)                                | 136 mm × 113 mm × 34 mm |
| Weight                                                | < 210 g                 |

## Chapter 8 Appendix

### 8.1 Default Settings

#### 8.1.1 Common Default Parameters

| Item                      | Default Value |
|---------------------------|---------------|
| Username of administrator | admin         |
| Password of administrator | admin         |
| IP address                | 192.168.1.1   |
| Subnet mask               | 255.255.255.0 |
| DHCP mode                 | Server        |
| NAT                       | Enable        |

#### 8.1.2 Default PVC Parameters

| Sequence No. | Mode    | VPI | VCI |
|--------------|---------|-----|-----|
| 0            | Routing | 0   | 100 |
| 1            | Routing | 0   | 101 |
| 3            | Routing | 0   | 103 |
| 4            | Routing | 0   | 104 |
| 6            | Routing | 1   | 139 |

## 8.2 Acronyms and Abbreviations

### A

ADSL Asymmetric Digital Subscriber Line

ATM Asynchronous Transfer Mode

### D

DHCP Dynamic Host Configuration Protocol

DNS Domain Name Server

DSLAM Digital Subscriber Line Access Multiplex

### I

IP Internet Protocol

IPoA Internet Protocol over ATM

ISA Industry Standard Architecture

ISP Internet Service Provider

### L

LAN Local Area Network

### P

PC Personal Computer

PCI Peripheral Component Interconnect

|       |                           |
|-------|---------------------------|
| PPP   | Point-to-Point Protocol   |
| PPPoA | PPP over ATM              |
| PPPoE | PPP over Ethernet         |
| PVC   | Permanent Virtual Channel |

## **V**

|     |                            |
|-----|----------------------------|
| VCI | Virtual Channel Identifier |
| VPI | Virtual Path Identifier    |

## **W**

|     |                   |
|-----|-------------------|
| WAN | Wide Area Network |
|-----|-------------------|

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