

# **User Guide**

# TD-8616B ADSL2/2+ Ethernet Modem



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# FCC STATEMENT

# FC

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to pro-vide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not in-stalled and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

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.
- 2) This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## **CE Mark Warning**

# CE

This is a class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

# **Package Contents**

The following items should be found in your package:

- > One TD-8616B ADSL2/2+ Ethernet Modem
- > One AC power Adapter for TD-8616B ADSL2/2+ Ethernet Modem
- Quick Installation Guide
- > One RJ45 cable
- Two RJ11 cables
- One ADSL splitter
- > One Resource CD , including:
  - This User Guide
  - Other Helpful Information

#### P Note:

Make sure that the package contains the above items. If any of the listed items are damaged or missing, please contact with your distributor.

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# Chapter 1. Introduction

Thank you for choosing the TD-8616B ADSL2/2+ Ethernet Modem .

## **1.1 Product Overview**

The device is designed to provide a simple and cost-effective ADSL Internet connection for a private Ethernet network.

The Modem is easy to use. The TD-8616B connects to an Ethernet LAN or computers via standard Ethernet ports. The ADSL connection is made using ordinary telephone line with standard connectors. Multiple workstations can be networked and connected to the Internet using a single Wide Area Network (WAN) interface and single global IP address.

#### ADSL

The TD-8616B supports full-rate ADSL2+ connectivity conforming to the ITU and ANSI specifications. In addition to the basic DMT physical layer functions, the ADSL2+ PHY supports dual latency ADSL2+ framing (fast and interleaved) and the I.432 ATM Physical Layer.

### 1.2 Main Features

- > One 10/100M RJ-45 LAN ports (Auto MDI/MDIX), one RJ11 port
- Downstream data rates up to 24Mbps, upstream data rates up to 3.5Mbps (With Annex M enabled).
- Supports long transfers, the max line length can reach to 6.5Km.
- Quick response semi-conductive surge protection circuit, provides reliable ESD and surge-protect function.
- > High speed and asymmetrical data transmit mode, provides safe and exclusive bandwidth.
- > Supports All ADSL industrial standards.
- > Compatible with all mainstream DSLAM (CO).
- > Real-time Configuration and device monitoring.
- > Supports Multiple PVC (Permanent Virtual Circuit).
- > Supports firmware upgrade and Web management.

## 1.3 Conventions

The Modem or device mentioned in this User Guide stands for TD-8616B without any explanations.

Parameters provided in the pictures are just references for setting up the product, which may differ from the actual situation.

# Chapter 2. Hardware Installation

## 2.1 The Front Panel

Figure 2-1

The LEDs locate on the front panel, which indicate the device's working status. For details, please refer to LED Explanation.

#### **LED Explanation:**

Name	Status	Indication		
	On	LAN port normal		
LAN	Off	Connection on LAN port abnormal		
	Flash	Data transmitting or receiving on LAN port		
	Slow flash	Connection to telecom network is abnormal		
ADSL	Quick flash	Connecting to the telecom network		
	On	Connection to telecom network is OK		
	Flash	There is data transmitting or receiving on WAN		
Act		port		
	Off	No data transmitting or receiving on WAN port		
Deuver	On	Power OK		
Power	Off	Power fail		

## 2.2 The Back Panel



Figure 2-2

- > ON/OFF: The switch for the power.
- > POWER: The Power plug is where you will connect the power adapter.
- > RESET: There are two ways to reset the Modem's factory defaults.

**Method one:** When the device is working, please press the reset button of the Modem, keep the reset button pressed down for more than five seconds and then wait for the modem to reboot.

**Method two:** Restore the default setting from "Maintenance-SysRestart" of the Modem's Web-based Utility.

- LAN: Through the port, you can connect the Modem to your PC or the other Ethernet network devices.
- > LINE: Through the port, you can connect the Modem with the telephone.

### 2.3 Installation Environment

- > The Product should not be located where it will be exposed to moisture or excessive heat.
- Place the Modem in a location where it can be connected to the various devices as well as to a power source.
- Make sure the cables and power cord are placed safely out of the way so they do not create a tripping hazard.
- > The Modem can be placed on a shelf or desktop.

## 2.4 Connecting the Modem

Before installing the device, please make sure your broadband service provided by your ISP is available. If there is any problem, please contact your ISP. You need to connect the device to the phone jack, the power outlet, and your computer or network. Before cable connection, cut off the power supply and keep your hands dry. You can follow the steps below to install it.

**Step 1:** Connect the ADSL Line.

**Method one:** Plug one end of the twisted-pair ADSL cable into the ADSL LINE port on the rear panel of TD-8616B, and insert the other end into the wall socket.

**Method two:** You can use a separate splitter. External splitter can divide the data and voice, and then you can access the Internet and make calls at the same time. The external splitter has three ports:

- LINE: Connect to the wall jack
- PHONE: Connect to the phone sets
- MODEM: Connect to the ADSL LINE port of TD-8616B

Plug one end of the twisted-pair ADSL cable into the ADSL LINE port on the rear panel of TD-8616B. Connect the other end to the MODEM port of the external splitter.

- Step 2: Connect the Ethernet cable. Attach one end of a network cable to your computer's Ethernet port or a regular hub/switch port, and the other end to the LAN port on the TD-8616B.
- **Step 3:** Attach the power adapter. Connect the AC power adapter to the POWER connector on the rear of the device and plug in the adapter to a wall outlet or power extension.
- **Step 4:** Turn on the TD-8616B and power on the computers and LAN devices.



Figure 2-3

# Chapter 3. Quick Installation Guide

## 3.1 Configure PC

After you directly connect your PC to the TD-8616B or connect your adapter to a Hub/Switch which has connected to the Router, you need to configure your PC's IP address. Follow the steps below to configure it.

Step 1: Click the Start menu on your desktop, right click My Network Places, and then select Properties (shown in Figure 3-1).



Figure 3-1

Step 2: Right click Local Area Connection (LAN), and then select Properties.

S Network Connections	
File Edit View Favorites Too	ols Advanced Help 🦧
🕝 Back 🔹 🌍 👻 🏂 🔎	Search 🎼 Folders
Address 🔕 Network Connections	💌 🄁 Go
Network Tasks	AN or High-Speed Internet
<ul> <li>Create a new connection</li> <li>Set up a home or small office network</li> <li>Change Windows Firewall settings</li> <li>Disable this network device</li> <li>Repair this connection</li> <li>Rename this connection</li> <li>View status of this connection</li> <li>Change settings of this connection</li> </ul>	Local Area Connection         Disable         Status         Repair         Bridge Connections         Create Shortcut         Delete         Rename         Properties
Other Places     Image: Control Panel       Image: Control Panel     Image: My Network Places       Image: My Documents     Image: My Computer	



**Step 3:** Select **General** tab, highlight Internet Protocol (TCP/IP), and then click the **Properties** button.

🕹 Local Area Connection Properties 🛛 🔹 💽 🔀
General Authentication Advanced
Connect using:
Realtek RTL8139 Family PCI Fast Etł <u>Configure</u>
This connection uses the following items:
Client for Microsoft Networks
<ul> <li>File and Printer Sharing for Microsoft Networks</li> <li>OoS Packet Scheduler</li> </ul>
Internet Protocol (TCP/IP)
I <u>n</u> stall Uninstall Properties
Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
Show icon in notification area when connected Notify me when this connection has limited or no connectivity
OK Cancel

Figure 3-3

**Step 4:** Configure the IP address (Figure 3-4): Enter the IP address as 192.168.1.\* (\* is any value between 2 to 254, Subnet mask is 255.255.255.0). After that, click **OK**.

Internet P	rotocol (TCP/IP) Properties	? 🔀
General		
this capa	get IP settings assigned automatically if your network supports bility. Otherwise, you need to ask your network administrator fo priate IP settings.	r
<u>О О</u> Ьtа	ain an IP address automatically	
	the following IP address:	
<u>I</u> P add	ress: 192.168.1.2	
S <u>u</u> bne	t mask: 255 . 255 . 0	
<u>D</u> efaul	t gateway:	
0 0 <u>b</u> ta	ain DNS server address automatically	
OUs <u>e</u>	the following DNS server addresses:	
Preferr	ed DNS server:	
Alterna	ate DNS server:	
	Ad <u>v</u> anced.	
	OK Can	cel

Figure 3-4

#### P Note:

 The users of Windows 98 can open TCP/IP Properties according to the following: Right-press (Mouse) Network Neighbor -> Choose Properties -> Double-press TCP/IP. PCI Fast Ethernet Adapter.

#### 2) The words in fact maybe are different with this guide.

Now, you can run the Ping command in the command prompt to verify the network connection. Please click the **Start** menu on your desktop, select **run** tab, type **cmd** in the field and press **Enter**. To continue, please type *ping 192.168.1.1* on the following appeared command prompt screen and then press **Enter**.

If the result displayed is similar to the screen below, the connection between your PC and the Modem has been established.

Pinging 192.168.1.1 with 32 bytes of data: Reply from 192.168.1.1: bytes=32 time<1ms TTL=64 Ping statistics for 192.168.1.1: Packets: Sent = 4, Received = 4, Lost = 0 <0% loss), Approximate round trip times in milli-seconds: Minimum = 0ms, Maximum = 0ms, Average = 0ms

Figure 3-5

If the result displayed is similar to the screen shown below, it means that your PC has not connected to the Modem.

Pinging 192.168.1.1 with 32 bytes of data: Request timed out. Request timed out. Request timed out. Request timed out. Ping statistics for 192.168.1.1: Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

Figure 3-6

You can check it follow the steps below:

- Is the connection between your PC and the Modem correct? The LEDs of LAN port which you link to the device and the LEDs on your PC's adapter should be lit.
- 2) Is the TCP/IP configuration for your PC correct? If the Modem's IP address is 192.168.1.1, your PC's IP address must be within the range of 192.168.1.2 ~ 192.168.1.254.

#### 3.2 Login

Once your host PC is properly configured, please proceed as follows to use the Web-based Utility: Start your web browser and type the private IP address of the Modem in the URL field:

**192.168.1.1** Address 192.168.1.1

After that, you will see the screen shown below, enter the default User Name **admin** and the default Password **admin**, and then click **OK**.

Connect to 19	2.168.1.1 🛛 🖓 🔀
R	G ST
TD-8616B User name:	🖸 admin 💙
Password:	emember my password
	OK Cancel

Figure 3-7

After that you will see the page as follow when ADSL connection is OK.

					ADSL2/2+ Ethernet Mode
Statistics	Basic Setup Maintena	ance Statis	tics		
	Device Information Traffi	c Statistics	- 11 QA		
	-				
Device Information	Firmware Version :	1.0.1 Build 0711	12 Rel.32720		
	MAC Address :	00:0a:eb:00:00:	43		
LAN	IP Address :	19216811			
	Subnet Mask :				
WAN					
	Virtual Circuit :	And and a support of the local division of the local division of the local division of the local division of the			
ADSL		Connected			
AUSL	ADSL Firmware Version :	FwVer:3.9.0.0	A TC3085 Hw	Ver.T14.F7 3.0	
	Line State : 1	Showtime			
	Modulation :				
	Annex Mode :	ANNEX_A			
		Downstream	Upstream		
	SNR Margin : Line Attenuation :	32.5 8.5	24.0 4.0	db	
	Data Rate :	2048	512	kbps	

Figure 3-8

# **Chapter 4. Software Configuration**

This User Guide recommends using the "Quick Installation Guide" for first-time installation. For advanced users, if you want to know more about this device and make use of its functions adequately, maybe you will get help from this chapter to configure the advanced settings through the Web-based Utility.

After your successful login, you can configure and manage the device. There are main menus on the top of the Web-based Utility, submenus will be available after you click one of the main menus. On the center of the Web-based Utility, there are the detailed configurations or status information. To apply any settings you have altered on the page, please click the **SAVE** button.

## 4.1 Statistics

Choose "**Statistics**", you can see the next submenus: **Device Information** and **Traffic Statistics**. Click any of them, and you will be able to configure the corresponding function.



Choose "**Statistics**  $\rightarrow$  **Device Information**" menu, and you will be able to view the device information, including LAN, WAN and ADSL. The information will vary depending on the settings of the Modem configured on the Basic Setup screen.

ADSI	212+	Ethen	net I	Nodem
ADGL	A	Luici	HOL I	nouem

Statistics       Device Information       Traffic Statistics         Device Information       Firmware Version: 1.0.1 Build 071112 Rel.32720 MAC Address: 00:0a:eb:00:00:43         LAN       IP Address: 192:168.1.1 Subnet Mask: 255:255.0         WAN       Virtual Circuit: PVCO M Status: Connected         ADSL       ADSL Firmware Version: FwVer:3.9.0.0_A_TC3085 HwVer:T14.F7_3.0 Line State: Showtine Modulation: 0.DMT Annex Mode: ANNEX_B         Downstream       Upstream SNR Margin: 32.5 24.0 db Line Attenuation: 6.5 4.0 db         Data Rate: 2048       512 kbps.	
Firmware Version : 1.0.1 Build 071112 Rel.32720         MAC Address : 00:0a:eb:00:00:43         LAN         IP Address : 192:168.1.1         Subnet Mask : 255:255:255.0         WAN         Virtual Circuit : PVC0 M         Status : Connected         ADSL         ADSL         ADSL         Downstream       Upstream         SNR Margin : 32.5       24.0       db         Line Attenuation : 8.5       4.0       db	
MAC Address : 00:0a:eb:00:00:43  IAN IP Address : 192:168.1.1 Subnet Mask : 255.255.0  WAN Virtual Circuit : PVC0 M Status : Connected  ADSL ADSL ADSL Firmware Version : FwVer:3.9.0.0_A_TC3085 HwVer:T14.F7_3.0 Line State : Showtine Modulation : 0.DMT Annex Mode : ANNEX_B Downstream Upstream SNR Margin : 32.5 24.0 db Line Attenuation : 8.5 4.0 db	
LAN P Address : 192.168.1.1 Subnet Mask : 255.255.255.0  WAN Virtual Circut : PVCO Status : Connected ADSL ADSL ADSL Firmware Version : FwVer:3.9.0.0_A_TC3085 HwVer:T14.F7_3.0 Line State : Showtime Modulation : G.DMT Annex Mode : ANNEX_B Downstream SNR Margin : 32.5 24.0 db Line Attenuation : 8.5 4.0 db	
IP Address : 192.168.1.1 Subnet Mask : 255.255.255.0 WAN Virtual Circuit : PVC0 M Status : Connected ADSL ADSL Firmware Version : FwVer:3.9.0.0_A_TC3085 HwVer:T14.F7_3.0 Line State : Showtime Modulation : G.DMT Annex Mode : ANNEX_B Downstream Upstream SNR Margin : 32.5 24.0 db Line Attenuation : 8.5 4.0 db	
WAN         Virtual Circuit :         Status :         Status :         Connected         ADSL         ADSL         ADSL Firmware Version :         Modulation :         Gownstream         Upstream         SNR Margin :       32.5         24.0       db         Line Attenuation :       8.5	
ADSL ADSL ADSL ADSL ADSL ADSL ADSL ADSL Firmware Version: FwVer:3.9.0.0_A_TC3085 HwVer:T14.F7_3.0 Line State : Showtime Modulation : G.DMT Annex Mode : ANNEX_B Downstream SNR Margin : 32.5 24.0 db Line Attenuation : 8.5 4.0 db	
ADSL ADSL ADSL Firmware Version : FwVer:3.9.0.0_A_TC3085 HwVer:T14.F7_3.0 Line State : Showtime Modulation : G.DMT Annex Mode : ANNEX_B Downstream SNR Margin : 32.5 24.0 db Line Attenuation : 8.5 4.0 db	
ADSL ADSL ADSL Firmware Version : FwVer:3.9.0.0_A_TC3085 HwVer:T14.F7_3.0 Line State : Showtime Modulation : G.DMT Annex Mode : ANNEX_B Downstream SNR Margin : 32.5 24.0 db Line Attenuation : 8.5 4.0 db	
ADSL ADSL Firmware Version : FwVer:3.9.0.0_A_TC3085 HwVer:T14.F7_3.0 Line State : Showtime Modulation : G.DMT Annex Mode : ANNEX_B Downstream SNR Margin : 32.5 24.0 db Line Attenuation : 8.5 4.0 db	
ADSL Firmware Version : FwVer:3.9.0.0_A_TC3085 HwVer:T14.F7_3.0 Line State : Showtime Modulation : G.DMT Annex Mode : ANNEX_B Downstream Upstream SNR Margin : 32.5 24.0 db Line Attenuation : 8.5 4.0 db	
Line State : Showtime Modulation : G.DMT Annex Mode : ANNEX_B Downstream Upstream SNR Margin : 32.5 24.0 db Line Attenuation : 8.5 4.0 db	
Modulation : G.DMT Annex Mode : ANNEX_B Downstream Upstream SNR Margin : 32.5 24.0 db Line Attenuation : 8.5 4.0 db	
Annex Mode : ANNEX_B Downstream Upstream SNR Margin : 32.5 24.0 db Line Attenuation : 8.5 4.0 db	
Downstream Upstream SNR Margin : 32.5 24.0 db Line Attenuation : 8.5 4.0 db	
SNR Margin: 32.5 24.0 db Line Attenuation: 8.5 4.0 db	
Line Attenuation: 8.5 4.0 db	
Data hate : 2040 512 kops	

Figure 4-2

Choose "**Statistics**→**Traffic Statistics**" menu, and you will be able to view the traffic statistics about the Modem.

Ctatiatian	Basic Setup Maintenance	Statistics	AUSLZ	2/2+ Ethernet
Statistics	Device Information Traffic Statist	ics		
Traffic Statistics				
	Interface : 💿 LAN	ADSL		
	Transmit Statistics		Receive Statistics	
	Transmit Frame	630	Receive Frame	552
	-			
	Fresh			

Figure 4-3

### 4.2 Basic Setup

Choose "Basic Setup", you can see the next submenus: WAN Setting, LAN Setting and ADSL.



Figure 4-4

Click any of them, and you will be able to configure the corresponding function.

#### 4.2.1 WAN Setting

Choose "**Basic Setup** $\rightarrow$ **WAN Setting**" menu, you can configure the parameters for WAN ports in the next screen (shown in Figure 4-5).

			ADSL2/2+ Ethernet Modem
Basic Setup	Basic Setup Maintenanc	ce Statistics	
	WAN Setting LAN S	Setting ADSL	
WAN Setting	Virtual Circuit : P	PVC0 V PVC Summary	]
	VPI: 0		
Bridge Mode	VCI 3		
	Encapsulation : 2	2684 Bridged IP LLC 💉	
		Save	

#### Figure 4-5

- WAN Setting: WAN settings are used to connect to your ISP. Your ISP provides VPI (Virtual Path Identifier), VCI (Virtual Channel Identifier) settings to you. In this Device, you can totally setup 2 VCs on different encapsulations, if you apply 2 different virtual circuits from your ISP. You need to activate the VC to take effect. For PVCs management, you can use ATM QoS to setup each PVC traffic line's priority.
  - Virtual Circuit: Select the VC number you want to setup, PVC0~PVC1.
  - Status: If you want to use a designed VC, you should activate it.
  - **VPI:** Identifies the virtual path between endpoints in an ATM network. The valid range is from 0 to 255. Please input the value provided by your ISP.
  - VCI: Identifies the virtual channel endpoints in an ATM network. The valid range is from 32 to 65535 (1 to 31 is reserved for well-known protocols). Please input the value provided by your ISP.
- Encapsulation: There are two connection types :LLC and VC-Mux. Please choose the appropriate type which ISP provide.

#### 4.2.2 LAN Setting

Choose "**Basic Setup→LAN Setting**" menu, and you will see the LAN screen (shown in Figure 4-6). Please configure the parameters for LAN ports according to the descriptions below.

						ADSL2/2+ Ethernet Modem
Basic Setup	Basic Setup Mainten	ance S	Statistic	S		
	WAN Setting LA	N Setting		ADSL	5	
LAN Setting						
	IP Address	: 192	168	. 1	. 1	
	Subnet Mask	: 255	255	255	. 0	
	6	[ Control				
		Save				



- LAN Setting: These are the IP settings of the LAN interface for the device. These settings may be referred to as Private settings. You may change the LAN IP address if needed. The LAN IP address is private to your internal network and cannot be seen on the Internet.
  - **IP Address:** Enter the Modem's local IP Address, then you can access to the Web-based Utility via the IP Address, the default value is 192.168.1.1.
  - **IP Subnet Mask:** Enter the Modem's Subnet Mask, the default value is 255.255.255.0.

#### 4.2.3 ADSL

Choose "**Basic Setup**  $\rightarrow$  **ADSL**", you can select the ADSL Type and ADSL Mode in the next screen. The ADSL feature can be selected when you meet the physical connection problem. Please check the proper settings with your Internet service provider.

Basic Setup	Basic Setup Maintenance Statistics						
	WAN Setting	LAN Setting	ADSL				
ADSL							
		SL Mode : Multimode 💌 ex Type : ANNEX_B					
		Save					

- > **ADSL Mode:** Select the ADSL operation mode which your ADSL connection uses.
- > **ADSL Type:** Select the ADSL operation type which your ADSL connection uses.

#### 4.3 Maintenance

Choose "Maintenance", you can see the next submenus:



Figure 4-7

Click any of them, and you will be able to configure the corresponding function.

#### 4.3.1 Administration

Choose "**Maintenance→Administrator**", you can set new password for admin in the screen (shown in Figure 4-8).

	-					ADSL2/2+ Ethernet Modem
Maintenance	Basic Setup	Maintenance	Statist	ics		
	Administrator	Firmware U	pgrade	SysRestart	Diagnosis Test	
Administrator	ĺ					
1		Username : adm	in			
	Nev	w Password :			]	
	Confin	m Password :			]	
		Sa	/e Cancel			
				2		

Figure 4-8

#### P Note:

- 1) There is only one account that can access Web-Management interface. The default account is "admin", and the password is "admin". Admin has read/write access privilege.
- 2) When you change the password, you should enter the new password twice, and then click **SAVE** to make the new password take effect.

#### 4.3.2 Firmware

Choose "**Maintenance**  $\rightarrow$  **Firmware**", you can upgrade the firmware of the Modem in the screen (shown in Figure 4-9). Make sure the firmware or romfile you want to use is on the local hard drive of the computer. Click **Browse** to find the local hard drive and locate the firmware or romfile to be used for upgrade.

					ADSL2/2+ Ethernet Modem
Maintenance	Basic Setup	Maintenan	ce Statist	ics	
	Administrator	Firmware	Upgrade	SysRestart	Diagnosis Test
Firmware Upgrade					
	Current Firmwa	are Version:1 are Location:	.0.1 Build 0711	12 Rel.32720	Browse
			might take sev ie upgrade.	eral minutes,don't po	ower off it during upgrading. Device will restart after
		[	UPGRADE		
			Figure 4	4-9	

To upgrade the modem's firmware, follow these instructions below:

Step 1: Download a more recent firmware upgrade file from the TP-LINK website (www.tp-link.com).

- **Step 2:** Type the path and file name of the update file into the "New Firmware Location" field. Or click the **Browse** button to locate the update file.
- Step 3: Click the UPGRADE button.

#### P Note:

- New firmware versions are posted at <u>www.tp-link.com</u> and can be downloaded for free. If the modem is not experiencing difficulties, there is no need to download a more recent firmware version, unless the version has a new feature that you want to use.
- 2) When you upgrade the modem's firmware, you may lose its current configurations, so please back up the modem's current settings before you upgrade its firmware.
- Do not turn off the modem or press the Reset button while the firmware is being upgraded.
- 4) The modem will reboot after the upgrading has been finished.

#### 4.3.3 SysRestart

Choose "Maintenance  $\rightarrow$  SysRestart", you can select to restart the device with current settings or restore to factory default settings in the screen (shown in Figure 4-10).

			12			ADSL2/2+ Ethernet Modem
Maintenance	Basic Setup	Maintenance	Statisti	CS		
	Administrator	Firmware Up	grade	SysRestart	Diagnosis Test	
	-					
SysRestart						
	System	Restart with : 💿 c	urrent Setti	ngs		
		○ F	actory Defa	ault Settings		
		RES	START			

Figure 4-10

#### 4.3.4 Diagnostic Test

Choose "**Maintenance→Diagnostic Test**", you can view the test results for the connectivity of the physical layer and protocol layer for both LAN and WAN sides in the screen (shown in Figure 4-11).

				1	ADSL2/2+ Ethernet Moder
Maintenance	Basic Setup	Maintenance Stati	stics		
	Administrator	Firmware Upgrade	SysRestart	Diagnosis Test	
Diagnosis Test	Virtual Circ	cuit PVC-0 💌			
		g Ethernet LAN connectio		PASS	
		g ADSL Synchronization		PASS	
		ig ATM OAM segment ping		PASS	
	>> Testir	g ATM OAM end to end pi	ng	FAIL	
	_				
		Submit			

Figure 4-11

# Appendix A: Specification

General					
	ANSI T1.413, ITU G.992.1, ITU G.992.2, ITU G.992.3, G.992.4, ITU				
Standards and Protocols	G.992.5				
	IEEE 802.3, IEEE 802.3u, TCP/IP, HTTP				
Safety & Emission	FCC、CE				
Ports	1 10/100M Auto-Negotiation RJ45 port (Auto MDI/MDIX)				
1 0113	1 RJ11 port				
LEDs	LAN, ADSL				
	Power, Act				
	10Base-T: UTP category 3, 4, 5 cable				
Network Medium	100Base-TX: UTP category-5				
	Max line length: 6.5Km				
Data Rates	Downstream: Up to 24Mbps				
	Upstream: Up to 3.5Mbps (With Annex M enabled)				
System Requirement	Internet Explorer 5.0 or later, Netscape Navigator 6.0 or later				
	Win 9x/ME/2000/XP/Vista				
Physical and Environment					
Working Temperature	0°C ~40°C				
Working Humidity	10% ~ 90% RH (non-condensing)				
Storage Temperature	-40℃ ~70℃				
Storage Humidity	5% ~ 90% RH (non-condensing)				