Atrie DB108-E ADSL MODEM

User Manual

V1.1



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Atrie 1.OVERVIEW 1.1 ABOUT ADSL

An ADSL MODEM is a broadband Internet access device, which utilizes the high frequency segment of the phone line to transmit high-speed data without affecting the voice transmission. The frequency of the ADSL signal is higher than that of voice, so voice and ADSL signal can coexist in one line by using a splitter to insulate each from the other. ADSL data transfer adapts the asymmetry model. It supports upload transmission speed up to 1Mbps and download speed up to 8 Mbps (24Mbps for ADSL2+). ADSL is an ideal device for broadband access.

1.2 ABOUT ADSL2/2+

Transmission performance of ADSL2 is improved comparing with the first generation of ADSL. These improvements are mainly concerned with long distance, anti-line-loss, anti-noise, etc. By doubling the transmission bandwidth, ADSL2+ has implemented a downlink rate as high as 24 Mbps. Therefore, Internet applications such as synchronous transmission of multi video stream, online games and huge capacity of downloading files are made possible.

1.3 FEATURES

- 1、 Support ANSI T1.413 ISSUE 2, ITU G.992.1 (G.DMT)、 ITU G.992.2 (G.LITE)、 ITU G992.3、 ITU G992.5
- 2. Web-based configuration and monitoring.
- 3. Support up to 4 PVCs.
- 4. Routing function.
- 5、 NAPT、 DHCP function.
- 6. Maximum downstream transmission rates of 8 Mbps (24Mbps for ADSL2+) .
- 7. Maximum upstream transmission rates of 1Mbps
- 8、 Transmission distance up to 5.5 km.

2 SPECIFICATION

2.1 INTERFACE INTRODUCTION

2.1.1 INDICATOR AND INTERFACE

Table 2.1 ITEM State introduction Name POWER A steady red light means the power connection works properly LINK Yellow, shows DSL line status. Indicator Green, Flashing means the Modem is transmitting or receiving DATA data PC Green, Indicates status of connection to the PC network card Connected with phone line or "ADSL" port of the splitter. LINE To be connected to a PC network card by a straight-through ETHERNET network cable, also can use a crossover cable to connect to Hub, Switch or Router. POWER Power interface, Connect with power adapter. Interface Reset to default setting. Put a pin into the eyelet, and press the button hidden in the RST modem for 5 seconds, then you can reset the modem with the default value. To turn on / off the power. SWITCH

2.1.2 SPLITTER SPEC

Fable	2.2
auto	4.4

Interface	Introduction		
LINE	Connected with telephone line		
	Connect with the LINE port of the		
ADSL	ADSL Modem using telephone		
	line provided.		
PHONE	Connect with telephone		

2.2 HARDWARE CONNECTION

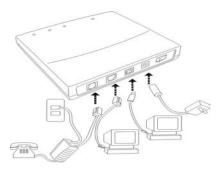


Figure 2.1



Introduction :

- 1. Use a telephone cord to connect the LINE port of the splitter with the RJ-11 port (the phone jack) on the wall.
- 2、 Use another telephone cord to connect the ADSL port of the splitter with the LINE port of the ADSL Modem.
- 3. Use another telephone cord to connect the telephone set with the PHONE port of the splitter.
- 4、 Connect Ethernet port of the ADSL MODEM with 10/100BASE-T port of the computer using the network cable that comes with the modem.
- 5. Plug in the power cord, and turn on the power.

If you do not want Internet services and telephone voice services simultaneously, please just connect the LINE port of the ADSL Modem with the RJ-11 port (the phone jack) on the wall using a telephone cord. In this case, the splitter is not necessary.

			Table 2.3	
Status	POWER	LINK (yellow)	DATA (green)	PC(green)
	(red)			green
Steady light	Power on	The modem is in	Connected with PC	Ethernet line is connected
		good connection		
Flashing	/	In handshaking	/	
		status		
Fast flashing	/	/	Transmitting or receiving data	Transforming data
Off	Power off	Connection not set	Not connected with PC	Ethernet line not connected
		up	properly	properly

2.3 LED STATUS INDICATION

3.CONFIGURATION

3.1 DEFAULT CONFIGURATION

ADSL MODEM has pre-configured with the following VCI/VPI. The default dial-up mode is bridge encapsulation. For bridge mode, no need to configure any more parameter. However, the third party dial-up software is needed for connection with the Internet

Link Name	VPI	VCI
pvc_0_32	32	0
pvc_8_35	35	8
pvc_0_35	35	0
pvc_8_81	81	8

3.2 COMPUTER CONFIGURATION

The default IP address for ADSL MODEM is: **192.168.1.1**; The Subnet Mask is : **255.255.255.0**. Users can configure ADSL MODEM through an Internet browser. ADSL MODEM can be used as gateway and DNS server; users need to set the computer's TCP/IP protocol as follow:

- Set the computer IP address at same segment of ADSL MODEM, such as set the IP address of the network card to one of the "192.168.1.2"~ "192.168.1.254".
- 2、 Set the computer's gateway the same IP address as the ADSL Modem's.
- 3、 Set computer's DNS server the same as ADSL Modem's IP address or that of an effective DNS server.

3.3 ADSL MODEM CONFIGURATION

3.3.1 LOG IN

Open the browser; input http://192.168.1.1 at the address column. Press "Enter" key then the entry dialog box will show up as Figure 3.1. Input "username" and "password" (capital sensitive), then press Enter.

Enter Netw	vork Passwor	d	? ×
? >	Please type yo	ur user name and password.	
IJ	Site:	192.168.1.1	
	Realm	DSL Router	
	<u>U</u> ser Name	admin	
	Password	*****	
	🔽 Save this p	password in your password list	
		OK Can	cel

Figure 3.1

3.3.2 SAVE SETTING

After getting through each page for parameters setting, click "Save" or "Save apply" to store the value in ADSL MODEM. Briefly, we named "Save".

Note :

When you save the settings, the web page will be refreshed slowly, please wait it finished. After you save the settings, it will take effect until next reboot. Some settings only take effect after rebooting the router.

3.4 WAN CONFIGURATION

If the configuration is bridge encapsulation, there is no need to configure any more parameters. Only need to use the third party dial-up software to connect the Internet.

Totally, this router supports :PPPoA, PPPoE, MER, IpoA, Bridging. For detail configuration information, please check the following configuration guide.

3.4.1 CONFIGURATION GUIDE

Click "WAN" on the left page, enter into "WAN" configuration page.

• Note: At most we can have four connections. If you need to add a new connection, please delete or modify an existing connection.

DSL Router - Microsoft Internet	et Explorer								<u> </u>
1	ools <u>H</u> elp								11
Address 🛃 http://192.168.1.1/								-	<i>i</i> ∂Go
Router & Modem									
	Wide Area	Networ	k (WAN) Se	etup					
Device Info DSL Status	VPI/VCI	Enable	Service Name	Connection Type	State	WAN Address	Remove	Edit	
WAN	0/32	YES	pvc_0_32	Bridge	ADSL Link Down			Edit	
LAN Password	8/35	YES	pvc_8_35	Bridge	ADSL Link Down			Edit	
DSL Settings	0/35	YES	pvc_0_35	Bridge	ADSL Link Down			Edit	
Reboot	8/81	YES	pvc_8_81	Bridge	ADSL Link Down			Edit	
	-		·	Remove	9	-			
Done	Red	commend	: 800×600 pi	ixels 🕽 High Col	or(16 Bit	s)	🔿 Inte	arnat	
E Done							🥑 Inte	ernet	

Figure 3.2



Click on the next connection which you want modify. Press "Edit" button, enter the configure guide, as Figure 3.3

🚰 DSL Router - Microsoft I	Internet Explorer	
<u> </u>	ites <u>T</u> ools <u>H</u> elp	
Address 🛃 http://192.168.	1.1/	▼ ∂°∞
Router & Modem		
	ATM PVC Setup	
Device Info	VPI: [0-255]	
DSL Status	VCI: [0-65535] 32	
WAN		
LAN	Back Next	
Password		
DSL Settings		
Reboot		
	Recommend: 800x600 pixels , High Color(16 Bits)	
🖉 Done		🔮 Internet 🥼

Figure 3.3

• The value for VPI/VCI is assigned by your ISP. After inputting the PVC value, press "Next" into "connection type". As Figure 3.4.

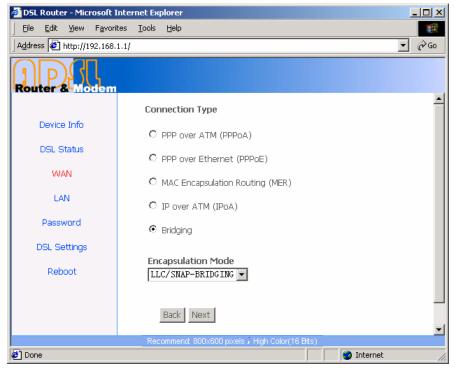


Figure 3.4



The Modem supports five ADSL protocol modes. Choose the protocol which is appointed by ISP and PVC encapsulation, click "Next" enter to the protocol configure. Below, we introduce the configuration of the five protocol modes.

• PPP over ATM (PPPoA)

- PPP over Ethernet (PPPoE)
- MAC Encapsulated Routing (MER)
- IP over ATM (IPoA)

- Bridging
- Some connection lines need to confirm the LLC or VC, if you can't confirm, please don't modify the default value or ask your ISP.

3.4.2 RFC1483 BRIDGE CONFIGURATION

Select the Bridging mode. Then press "Next" to specify the Service Name, and select the "Enable Service" as Figure 3.5.

🚰 DSL Router - Microsoft	Internet Explorer	
∫ <u>F</u> ile <u>E</u> dit <u>V</u> iew F <u>a</u> vor	rites <u>T</u> ools <u>H</u> elp	
Address 🛃 http://192.168	.1.1/	▼ 🖓 Go
	n	
Device Info DSL Status WAN LAN	Enable Service 🔽 Service Name: pvc_0_32	
Password DSL Settings Reboot	Back Next	
Done	Recommend: 800x600 pixels ; High Color(16 Bits)	iternet

Figure 3.5

Press "Next" to enter into "WAN configuration", click "save" to save configuration, if you need to modify the parameter, click "back" as Figure 3.6.



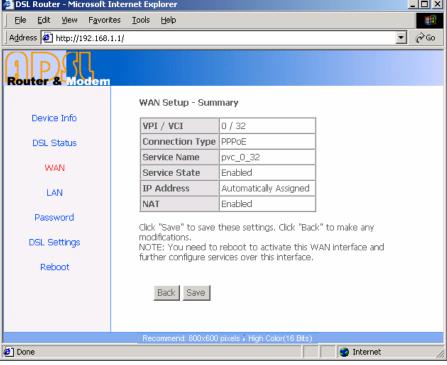


Figure 3.6

Note : When you use bridge mode, please close "DHCP SERVER", the result as Figure 3.7

DSL Router - Microsoft I	Internet Explorer	
Eile Edit View Favori	tes Iools Help	1
Address 🗿 http://192.168.	1.1/	→ [→]
Router & Modern		
	Lan Setup	
Device Info	You must reboot the router to make the new configuration effective of this page.	
DSL Status	enective of this page.	
WAN	IP Address: 192.168.1.1	
LAN	Subnet Mask: 255.255.255.0	
Password	DHCP Server Disable	
DSL Settings	O Enable	
Reboot	Start IP Address: End IP Address:	
	Leased Time(hour):	
	Save Reset	
	Charles - Charles -	
	Recommend: 800x600 pixels , High Color(16 Bits)	
Done 🖉	🔮 Internet	1

Figure 3.7



3.4.3 PPPOE CONFIGURATION

PPPoE is also known as RFC 2516. It is a method of encapsulating PPP packets over Ethernet.

PPPoA is also known as RFC2364 and named as Peer to Peer Protocol over ATM. As PPPoE, it also has all the features of PPP. Although it's based on ATM protocol, the setting of all the other parameters is similar with PPPoE. So we only introduce PPPoE in detail here.

In Figure 3.4, select PPP over Ethernet (PPPoE), press "Next step" entering the configuring interface, as Figure 3.8.

🖉 DSL Router - Microsoft I	Internet Explorer
<u>File E</u> dit <u>V</u> iew F <u>a</u> vori	ites Iools Help
Address 🛃 http://192.168.	1.1/ 💌 🔗 Go
Router & Modem	
	PPP Username and Password
Device Info	
DSL Status	PPP Username: adsl
WAN	PPP Password: **** PPPoE Service Name:
LAN	Authentication Method: AUTO
Password	Dial on demand (with idle timeout timer)
DSL Settings	
Reboot	
	Back Next
	Recommend: 800x600 pixels , High Color(16 Bits)
🖉 Done	🔰 🚺 🔮 Internet

Figure 3.8

- PPP Account: Your account from ISP to access Internet.
- Password: Input the password assigned by your ISP.
- PPPoE server name: Server name of network ISP. No need to set.
- Authentication Mode: Authentication mode of network ISP. Default is AUTO.
- Connection on demand: When this mode is selected, the connection that has no traffic within assigned disconnect timeout (e.g. 1 minute) will be automatically disconnected. The connection will be activated again when traffic arrives. This function is advantageous for users who are charged with online time. It should be noticed that some programs automatically link to Internet. Computer will send data to network when infected by virus. Connection will not be disconnected under these data streams.
- Disconnect timeout: When "Connection on demand" is selected, this input box indicates that after how long the connection will be disconnected in the absence of traffic. If the value is 0, connection will not be disconnected.



Press "Next step" when configuration is finished. The following operation is same with Figure 3.5. Notice that PPPoE mode does not work until the modem is reset.

3.4.4 STATIC ADDRESS

In Figure 3.4, select MAC Encapsulation Routing (MER), press "Next", and the configuration can be queried from your ISP, the result as Figure 3.9.

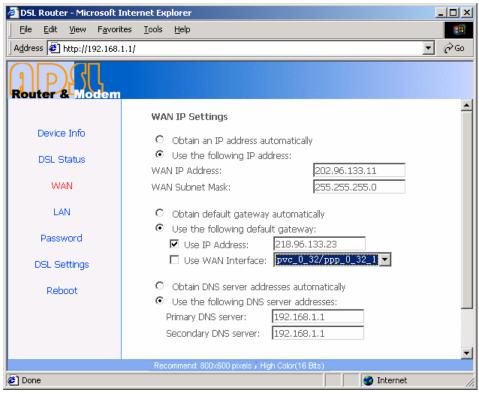


Figure 3.9

Atrie 4 OTHER CONFIGURATION

4.1 LAN CONFIGURATION

Configuration of Modem's IP address and password

4.1.1 CONFIGURATION OF MODEM'S IP ADDRESS

As a network device, ADSL Modem has its own IP address and MAC address. The factory sets the MODEM, at a default IP address of 192.168.1.1 and subnet mask of 255.255.255.0. The user can configure these addresses through the "LAN" on "Configuration" like this:

For example, change IP address to "10.10.10.10". Click "LAN", input "IP address": 10.10.10.10, then "subnet mask": 255.0.0.0, the result is as Figure 4.1, press "save".

DSL Router - Microsoft I	Internet Explorer
Eile Edit View Favori	tes Iools Help
Address 🛃 http://192.168.	1.1/ ▼ ∂G0
Router & Modern	
Device Info DSL Status	Lan Setup You must reboot the router to make the new configuration effective of this page.
WAN LAN	IP Address: 10.10.10 Subnet Mask: 255.0.0.0
Password DSL Settings	DHCP Server © Disable © Enable
Reboot	Start IP Address: 10.10.10.11 End IP Address: 10.10.10.254 Leased Time(hour): 2
	Save Reset Recommend: 800x600 pixels ; High Color(16 Bits)
@] Done	Recommend: 800x600 pixels > High Color(16 Bits)
1 Carlo	j j je zkolite ///

Figure 4.1

Note : If you change IP address, it will take effect immediately. You must use the new IP address to login.

4.1.2 DHCP CONFIGURATION

- click "LAN "
- click "DHCP server";
- Define the "Start IP address" and the "End IP address" of DHCP server (for example, from



192.168.1.2 to 192.168.1.254).

• Input the value of lease (Measured by the second, 0 indicates permanently valid).

As Figure 4.2, open DHCP server, computer will set the IP Address of network card with one of the address $10.10.10.11 \sim 10.10.10.254$.

DHC	P Server	
$^{\circ}$	Disable	
\odot	Enable	
	Start IP Address:	10.10.10.11
	End IP Address:	10.10.10.254
	Leased Time(hour):	2
	Save Reset	

Figure 4.2

Note : When you use the DHCP Server, please pay attention to having multi-DHCP Server in one LAN.

4.2 PASSWORD CONFIGURATION

When you configure ADSL MODEM through an Internet browser, the system requires user name and password to validate access permission. The factory sets the modem at a default username of "**admin**" and the password of "**password**". The username is unchanged. You can enter the "password configuration" on Configuration column to change the password.

Attention: please remember the password after change, otherwise you will not be able to change configuration after saving setting



5 USAGE OF USB INTERFACE

The Combo DSL Gateway is a device with both Ethernet Interface and USB Interface, which is independent, you may use either of them to connect to the different computers, in this way the two computers can connect to the network at one time. The Gateway can be seen as a simple two-port HUB. So, do not connect both the Ethernet Interface and USB Interface to a same computer.

When using USB Interface, you must install the drivers. After installation, a virtual network card, "USB Remote NDIS Network Device", will be added into the computer. It has all the functions of a real network card, and it makes installation more easily.

NOTES:

The following shows the steps for Windows®2000, the installation, configuration and uninstallation of Windows®98 or Windows®XP are similar to this.

5.1 DRIVER INSTALLATION

- 1. Plug in the power cord, and turn on the power.
- 2. Connect USB port of the Gateway to USB port on your PC with the USB cable that comes with the Gateway.
- 3. Once the new hardware is detected as shown in the dialog box below, Choice "Search for a suitable driver for my device". As shown Figure 5.1, Click "Next" button.

	Found New Hardware	
	USB RNDIS Adapter	
Found New Hardware Wizard		Found New Hardware Wizard
	Welcome to the Found New Hardware Wizard This wizard helps you install a device driver for a hardware device.	Install Hardware Device Drivers The device driver is a software program that enables a hardware device to work with an operating system. This wizard will complete the installation for this device: USB RNDIS Adapter A device driver is a software program that makes a hardware device work. Windows needs driver files for your new device. To locate driver files and complete the installation cick Next. What do you want the wizard to do? © Search for a suitable driver for my device (recommended). C Display a list of the known drivers for this device so that I can choose a specific driver
	<back next=""> Cancel</back>	<u>< B</u> ack <u>N</u> ext > Cancel

Figure 5.1

4. The dialog box is as shown Figure 5.2. Choice "Specify a location", and Click "Next" button.

Locate Driver Files Where do you want Windows to search for driver files? Search for driver files for the following hardware device: USB RNDIS Adapter		
USB RNDIS Adapter		
The wizard searches for suitable drivers in its driver database on your computer and in any of the following optional search locations that you specify. To start the search, click Next. If you are searching on a floppy disk or CD-ROM drive, insert the floopy disk or CD before clicking Next.		
Optional search locations: Floppy <u>di</u> sk drives <u>CD-ROM drives</u>		
☑ Specify a location ☑ Microsoft Windows Update		
< Back Next > Cancel		

Figure 5.2

A new box will pop up for selection of the location of the driver. If the location is incorrect please click "Browse" and select the right location, then click "Next" button. As shown Figure 5.3. The default location is in the "USB_DRV" folder of the CD.

Found Nev	w Hardware Wizard		×
	Insert the manufacturer's installation disk into the drive selected, and then click OK.	OK Cancel	
	Copy manufacturer's files from: 0:\USB_DRV	Browse	

Figure 5.3

6. Click "Next" or "Continue" for any dialog box pops up.



Figure 5.4



7. A message box will show the installation of "USB Remote NDIS Network Device" is complete. Click "Finish" button. As shown Figure 5.5.

Found New Hardware Wiz	

ound New Hardware wizard	
	Completing the Found New Hardware Wizard USB Remote NDIS Network Device
	Windows has finished installing the software for this device.
	To close this wizard, click Finish.
	< Back Finish Cancel

Figure 5.5

8. After the steps above, you will find there is a new item called "USB Remote NDIS Network Device" in "Control Panel"-"System"-"Device Manager"-"Network adapters". As shown figure 5.6. And a new "Local Area Connection X" is added in "Network Connections". As shown figure 5.7.

🖳 Device Manager 📃 🔍 其
<u>A</u> ction View ← → 🛍 🔃 😭 😫 😹 😹 🗶
 DSL-138 Computer Display adapters Floppy disk controllers Floppy disk drives IDE ATA/ATAPI controllers Keyboards Monitors Monitors Network adapters Sound 3020 Integrated Fast Ethernet Controller (3C905C-TX Compatible) Efficient Networks Enternet P.P.P.o.E Adapter USB Remote NDIS Network Device Sound, video and game controllers System devices Universal Serial Bus controllers

Figure 5.6



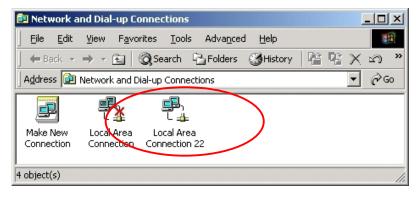


Figure 5.7

5.2 DRIVER UNINSTALLATION

1. Right click the icon of "My Computer" on the desktop, choice "Properties" item on menu pop up. As shown Figure 5.8.



Figure 5.8

2. Click "Device Manager" button in "Hardware" page. As shown Figure 5.9.

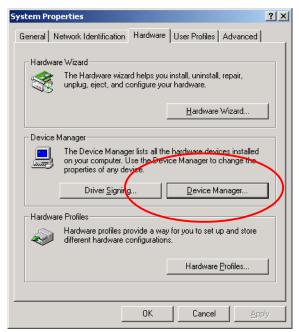


Figure 5.9



3. Double Click the "USB Remote NDIS Network Device" in "Device Manager" dialog box. As shown Figure 5.10.



Figure 5.10

4. Click "Uninstall" button in "Driver" page. As shown Figure 5.11.

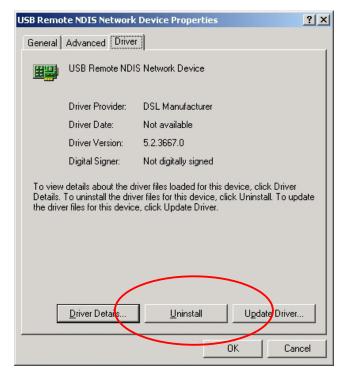


Figure 5.11



5. Click "OK" when the dialog box shown as below to finish the uninstallation.



Figure 5.12

5.3 CONFIGURATION OF "USB REMOTE NDIS NETWORK DEVICE"

As a virtual network card, "USB Remote NDIS Network Device" can be configured as a normal network card.

Set the computer IP address at same segment of ADSL MODEM, such as set the IP address of the network card to one of the "192.168.1.2" \sim "192.168.1.254".

User can also change its configuration for special reason.

Local Area Connection 22 Properties	Internet Protocol (TCP/IP) Properties
General Sharing	General
Connect using:	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Components checked are used by this connection:	Detain an IP address automatically Use the following IP address:
Elient for Microsoft Networks Elient for Microsoft Networks Elie and Printer Sharing for Microsoft Networks Thternet Protocol (TCP/IP)	[P address: Subnet mask:
	Default gateway:
Install Uninstall Properties	Obtain DNS server address automatically
Description	O Use the following DNS server addresses:
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication	Preferred DNS server:
across diverse interconnected networks.	Alternate DNS server:
Sho <u>w</u> icon in taskbar when connected	Ad <u>v</u> anced
OK Cancel	OK Cancel

Atrie 6. TROUBLESHOOTING

6.1 UNABLE TO ACCESS INTERNET

6.1.1 CHECK THE LINE AND THE DEVICE

- 1. Check the indicator of power supply is on, if not, Make sure the connection of power supply is correct; Make sure the output of power supply is correct; Make sure the switch of power supply is turned on ;
- 2. Check the indicator of PC is on, if not, Make sure the connection of cable and network adapter; Make sure that the correct cable is used;
- 3、 Check the LINK LED to see if it is twinkling. If no fast twinkling is observed within 3 minutes, please check whether phone line has been correctly placed; whether ADSL separator is correctly used. If multiple extensions have been installed, make sure that the separator is installed prior to the junction box of phone line. If the above items are confirmed and still no fast twinkling of WAN LED is observed, call the ISP to query whether ADSL service has been provided on your line;
- 4、 Check the LINK LED to see whether it is unable to change status from fast twinkling to always light, or whether it changes status to fast twinkling after sometime of always light. If these phenomena occur constantly, please contact your ISP with a demand to check lines and signal quality;

If there is no problem in the above items, the line and the device shall be working. Problems may come from your computer configuration or device configuration.

6.1.2 CHECK YOUR CONFIGURATION

We explain here the configuration of PPPOE using Windows 2000 operation system as an example. For other operation systems the process is similar.

- 1. Enter the device manager to check if Ethernet adapter is correctly installed. If any problem exists, please re-installed it;
- 2、 Check the configuration of Ethernet adapter in PC. Try to manually set IP address that is in band 192.168.1.x without conflict. See 3.2;
- 3、 Try to run command "ping 192.168.1.1" on command line mode. If the response returns "time out", please check Ethernet connection and IP settings;
- 4、 If this modem is reachable, try to run ping with a known outer IP, e.g. the DNS server IP of ShangHai Online: "ping 202.96.209.133".
 - If ping is reachable, there shall be no problems in the modem. Please see step 5;
 - If ping is not reachable, see step 6 and check if the configuration is correct.
- 5、 Please try to ping a certain outer URL, e.g. "ping www.google.com".
 - If ping is reachable, there shall be no problems in the network settings. Please check the settings of the PC terminal, e.g. whether the security level is too high, or whether anti-virus firewall is installed;
 - If ping is not reachable, check the DNS setting of Ethernet adapter. See 3.2.

Note 1 : The precondition is that LAN settings in the modem has not been modified.

Note 2 : We usually start command line mode in Windows 2000 as follows: click on the "RUN" item of Windows Start Menu, input characters "cmd" in the input box popped up with an "Enter". The window



subsequently popped up is the command line window.

Note 3 : The returned values of ping command in the following format show the standard of "reachable"

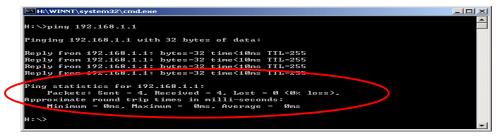


Figure 6.1

- 6. If ping of the modem is reachable but ping of the outer fixed IP is unreachable, attention should be concentrated upon device settings. Please enter the configuring interface following the instructions in this manual.
 - (1) Check first the number of connections. If more than one connection exists, for troubleshooting , delete unused connections and remain the one connection you are using.
 - (2) Check the connection to see whether correct "type" is selected. It's normal to choose login type of PPPoE. When you use PPPoE to login, the following information should be provided: VPI and VCI, which can be queried from your ISP, user name and password.
 - (3) Then make sure that "using NAT" and "default gateway" have been selected with a tick. Check whether "connect on demand" has been selected with a tick. If it is selected, the connection is activated only when traffic to outer networks arrives. If not selected, check "keep connection", which should be set to 0 if you demand to keep connection

Make sure that the above parameters are saved after configuration. Internet is now available since the configuration is properly done.

ANNEX : SHIPPING LIST

ADSL MODEM	$\times 1$
Splitter	$\times 1$
User Manual	$\times 1$
Power Supply	$\times 1$
Cable Cat5 RJ45	$\times 1$
Telephone Line	$\times 2$
Warranty	$\times 1$
Certificate	



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