

User's Manual
ADSL Router Modem DB 120
4 Ethernet Ports

1. About ADSL

ADSL (Asymmetric Digital Subscriber Line) is a technology that allows high-speed data to be transmitted over existing copper telephone lines. 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 supports upload transmission speed up to 1Mbps and download speed up to 8 Mbps. Its data transfer rate adapts to the quality of telephone line and its distance. ADSL modem is an ideal device for broadband access.

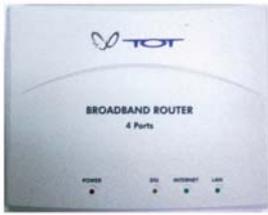
2. Feature of ADSL Router Modem DB120

1. Support ANSI T1.413 ISSUE 2, ITU G.992.1(G.DMT), ITU G.992.2(G.LITE).
2. Web-based configuration and monitoring.
3. Support up to 8 PVCs.
4. Routing function.
5. Support NAT, DHCP Server
6. Maximum downstream transmission rates of 8 Mbps.
7. Maximum upstream transmission rates of 1Mbps.
8. 4 Port Ethernet

3. System Requirements

- CPU Pentium® MMX 233 MHz / higher or Compatible
- Ram 64 Mb or higher
- Hard Disk 1 Gb or higher
- CD Rom 8 X or higher
- LAN Card (Network Interface Card)
- Windows® 98/2000/NT/Me/XP

4. Package Contents



DB120, 4 Ethernet Ports



One splitter



One LAN cable (RJ-45 Cable)



Two telephone lines (RJ-11 Cables)

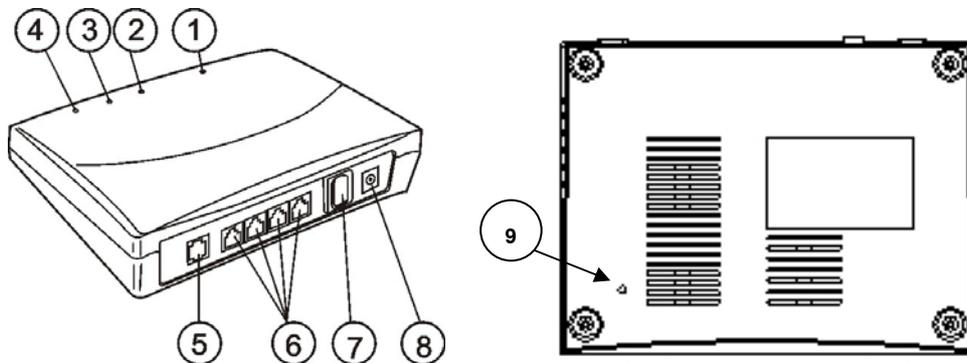


One Adapter AC 220 Volts, DC 11 Volts



CD Quick Setup/Thai & English user's Manual

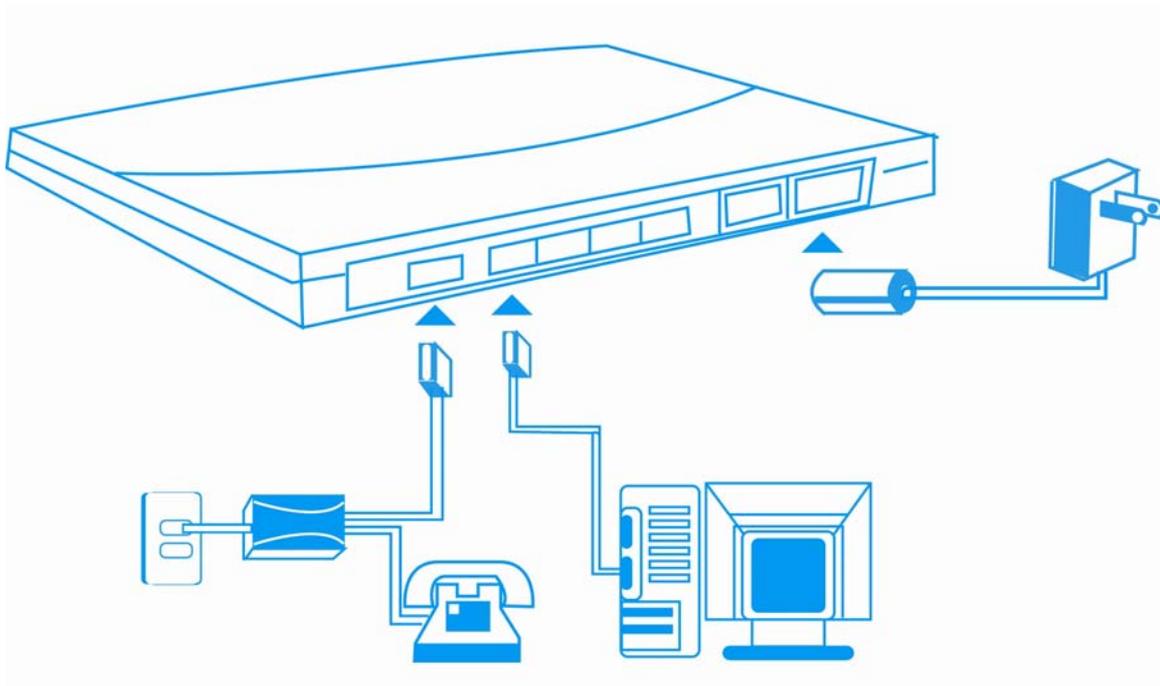
5. Indicators and Interfaces



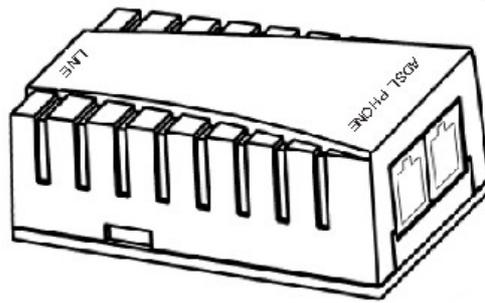
	No.	Item	Status
Indicator	(1)	Power	Red, Indicates the status of the power connection.
	(2)	DSL	Yellow, Shows DSL line status.
	(3)	INTERNET	Green, Indicates the status of internal Connection
	(4)	LAN	Green, Indicates the status of Ethernet interface.
Interface	(5)	LINE	Connected with phone line or "ADSL" port of the splitter.
	(6)	ETHERNET	To be connected to a PC network card by a straight-through network cable, also can use a crossover cable to connect to Hub, Switch or Router.
	(7)	SWITCH	To turn on / off the power.
	(8)	POWER	Power interface, Connect with power adapter.
	(9)	RESET	The RESET button will set the Modem to its factory default setting and reset the Modem. To reset the Modem, simply press the reset button for more than 10 seconds. The Modem will be reset to its factory defaults and after about 30 seconds the Modem will become operational again.

6. Hardware Connection

- 6.1 Connect anyone of four Ethernet ports of the modem (6) with 10/100BASE-T port of the computer using the LAN cable
- 6.2 Plug the adapter in AC outlet, and then plug in power cord (8).
- 6.3 Turn on the power switch (POWER LED will be on), then configure the ADSL modem and enter username and password (according to step 11 and step12)
- 6.4 Use a telephone cord to connect the LINE port of the splitter with the RJ-11 port (the phone jack) on the wall.
- 6.5 Use another telephone cord to connect the ADSL port of the splitter with the LINE port of the Modem (5).
- 6.6 Use another telephone cord to connect the telephone set with the PHONE port of the splitter.



7. Splitter



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

8. LED Status Indication

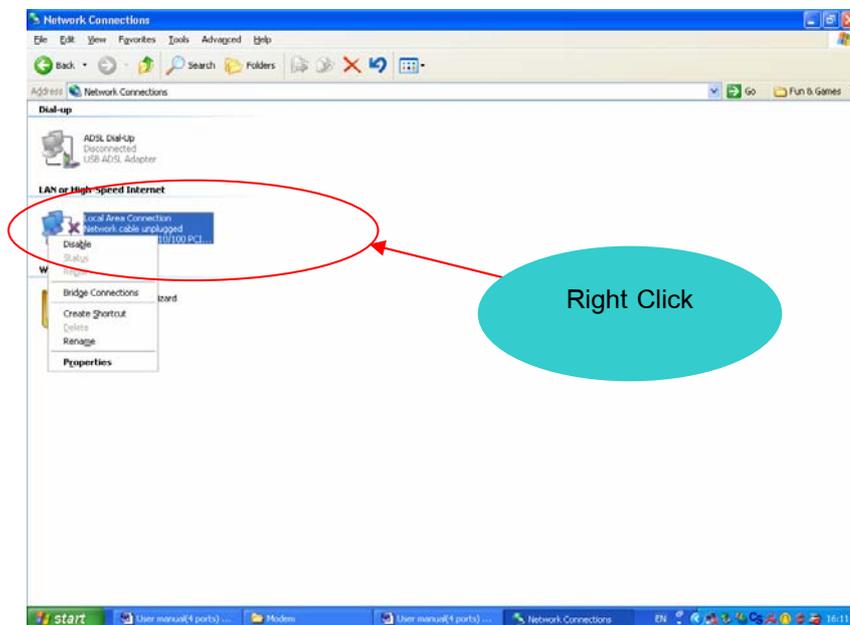
Status	ON	Flashing	Fast Blinking	OFF
Power	Normal Operation	-	-	Power not applied
DSL	DSL line is trained	DSL is training	DSL is transforming data	DSL line not Connected
INTERNET	Internet Connection	-	-	No Internet not Connection
LAN	Ethernet is connected	-	Ethernet traffic is flowing	Ethernet is not connected; Wrong type of Ethernet cable used

9. Configure your PC's Network parameters.

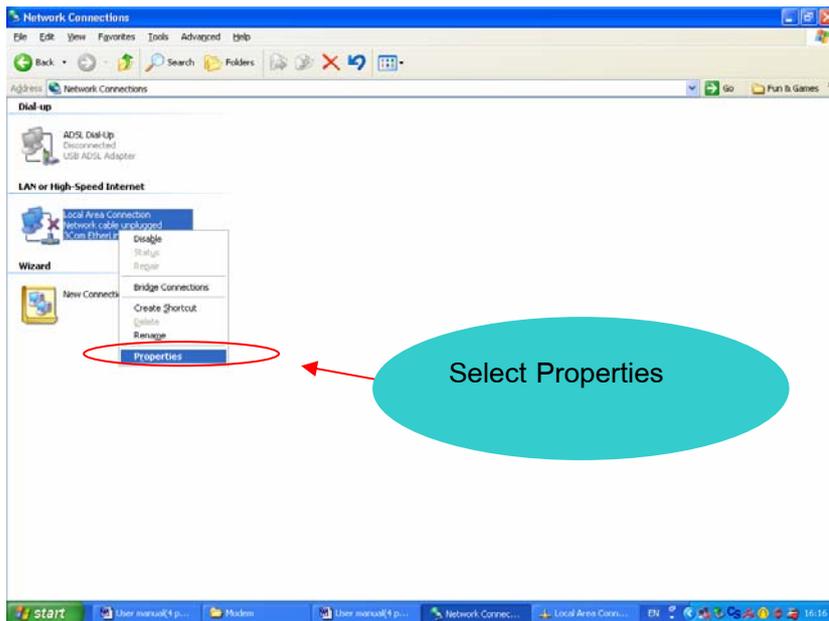
9.1 In case of Windows 98 /ME/ 2000, click the Start button, point to **Settings**, and then click **Control Panel**. Double-click the Network and Dial-up Connections icon. Select **Internet Protocol (TCP/IP)**, and then click **Properties**. Click the radio button labeled **Obtain an IP address automatically**. Also click the radio button labeled **Obtain DNS server address automatically**. Click **OK** to confirm.

9.2 In case of Windows XP, click the Start button, and then click **Control Panel**. Double-click the Network Connections icon.

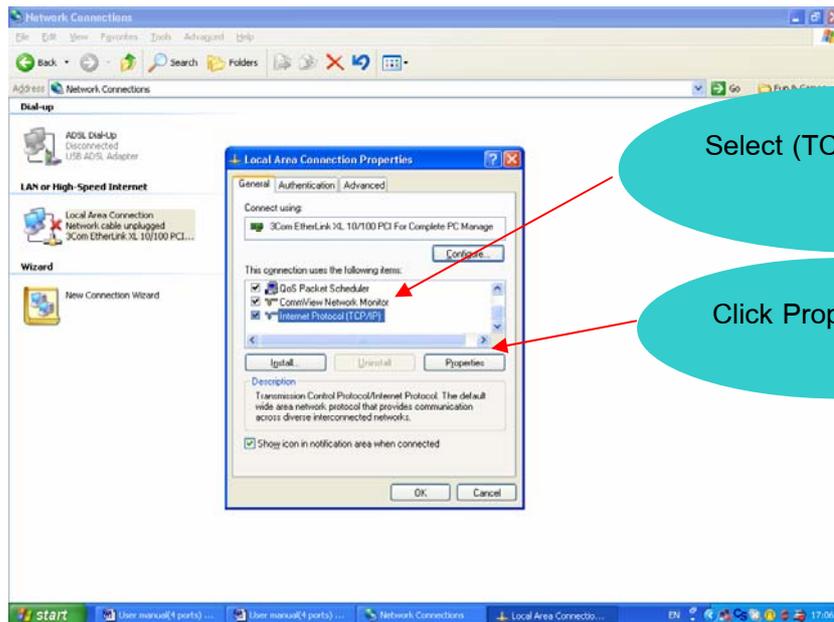
9.3 For Windows XP®. Follow the instructions presented on the figures below



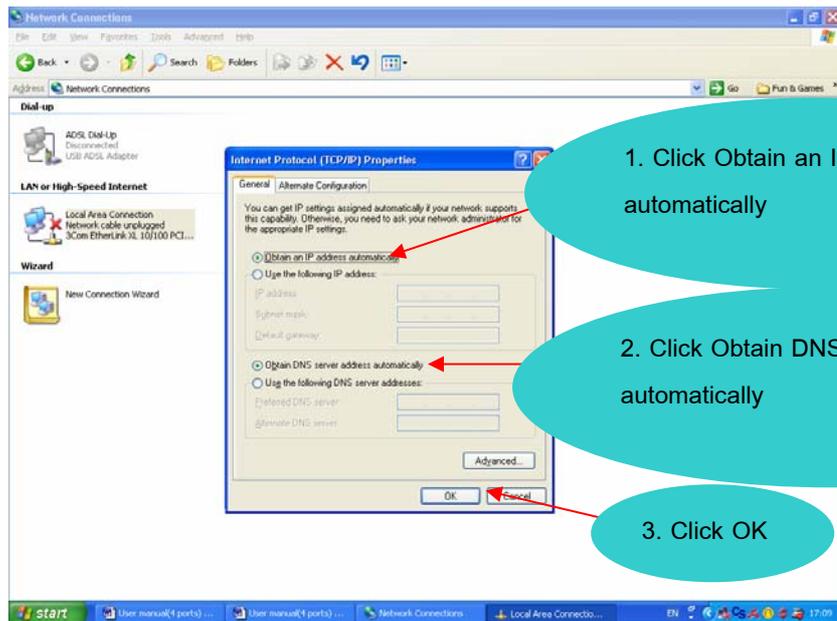
1) Right-click the **Local Area Connection** icon



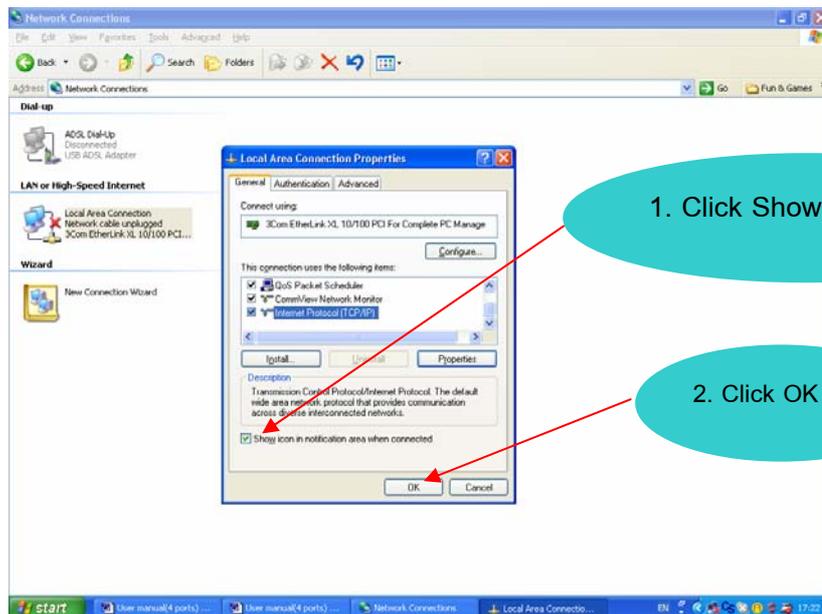
2) Select Properties



3) Select Internet Protocol (TCP/IP), and then click Properties.



- 4) Click the radio button labeled **Obtain an IP address automatically**. Also click the radio button labeled **Obtain DNS server address automatically**. Click **OK** to confirm.



- 5) Click the radio button labeled **Show icon**, and then click **OK** to save.

9.4 After complete these instructions and turn on your ADSL modem, you will found the icon on the status bar as the figure below:, figure a) LAN cable connected correctly or figure b) LAN cable connected incorrectly

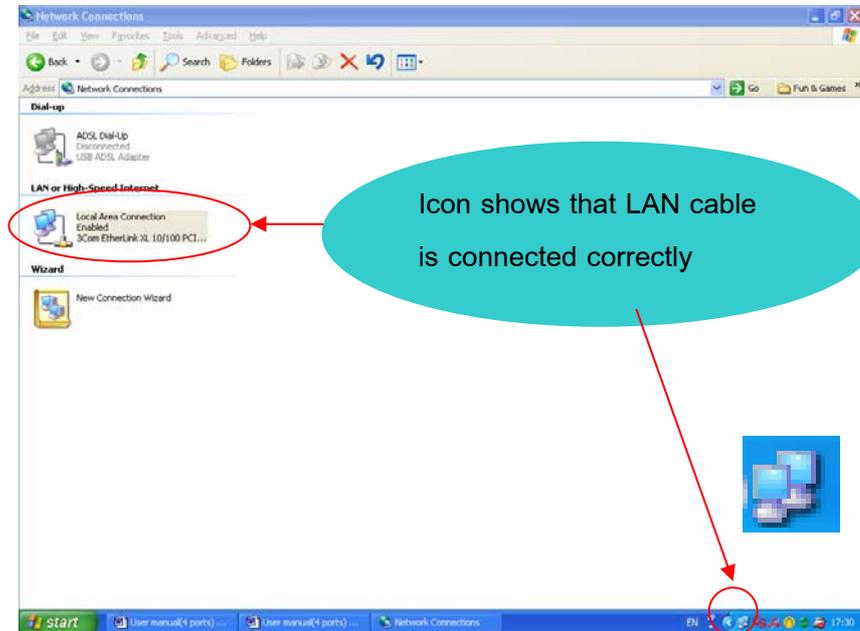


Figure a) LAN cable is connected correctly

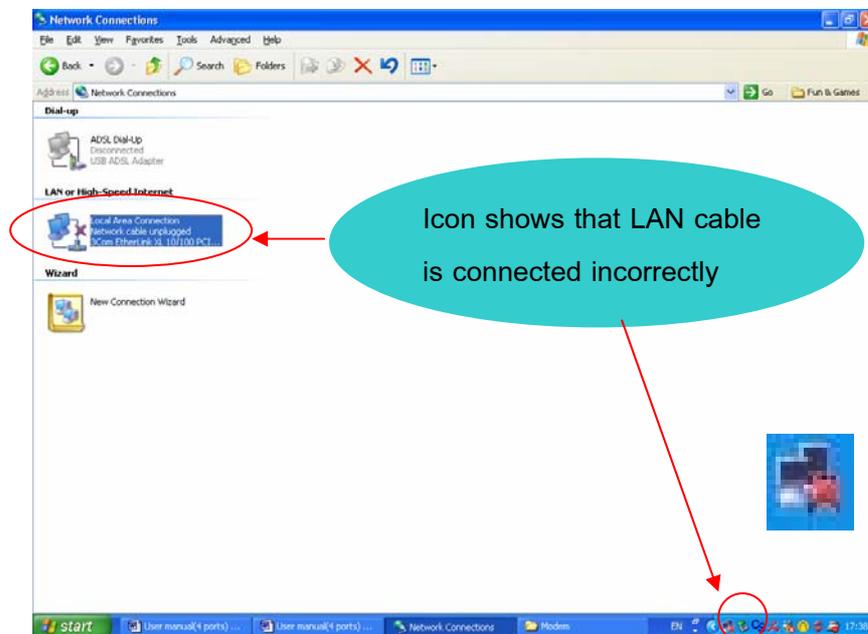
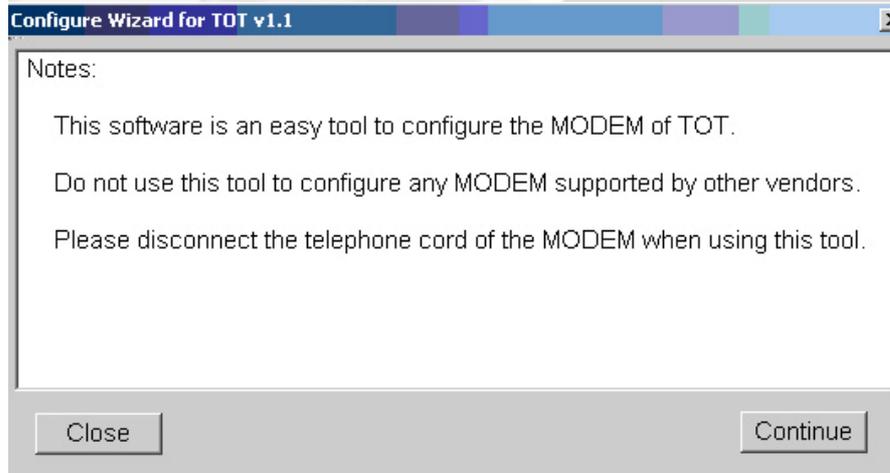


Figure b) LAN cable is connected incorrectly

10 Configure ADSL Modem: Quick Setup using CD

10.1 Insert **Quick setup CD-Rom** into your computer. Wait for a moment until dialogue box is displayed as below. Then click "Continue" button.



10.2 Enter your **Username** and **Password**, assigned by TOT*, then click "Finish"

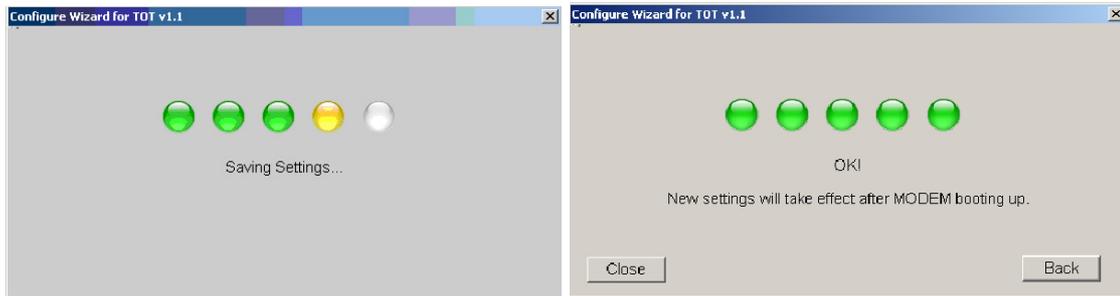


***For TOT ADSL subscriber , you will get Username and password as followed**

1. Super Package (256/128) Login Name : 0xxxxxxx@supercyber Password : 0xxxxxxx
2. Silver Package (512/256) Login Name : 0xxxxxxx@silvercyber Password : 0xxxxxxx
3. Gold Package (1024/256) Login Name : 0xxxxxxx@goldcyber Password : 0xxxxxxx

0xxxxxxx is the Telephone number of ADSL subscriber

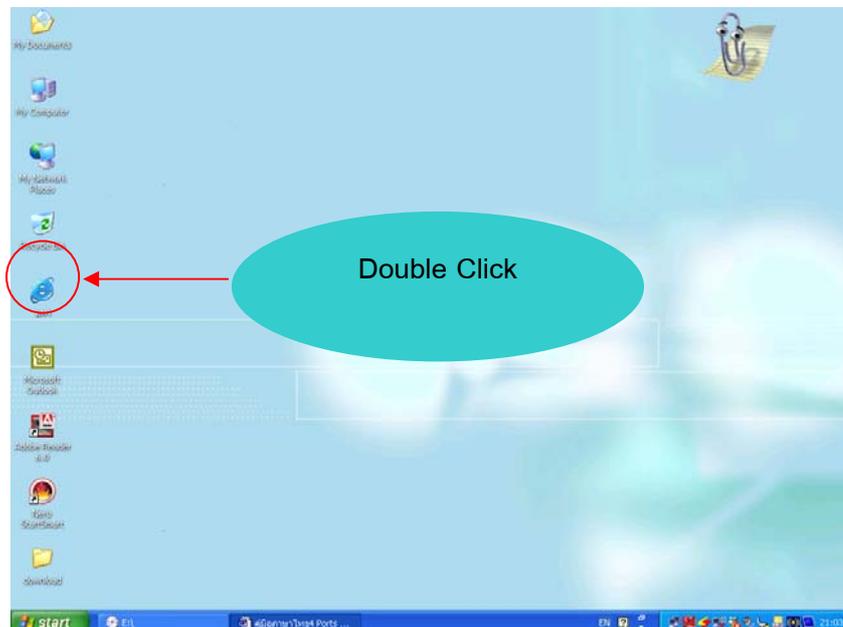
10.3 Username and Password will be saved in ADSL Modem, and then click “Close” button. it will restart automatically.



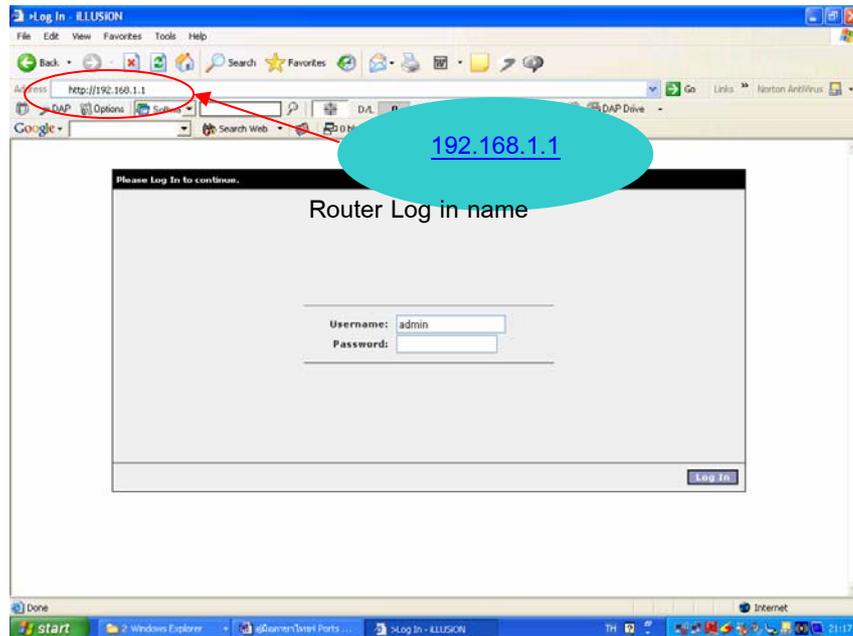
10.4 After ADSL modem is restarted, wait for a moment until LED of LAN, Internet, DSL are lighted and go solid. After that click at Internet Explorer to test the internet connection. Till this point, the ADSL modem configuration is finished.

11. Configure ADSL Modem: Quick Setup without CD

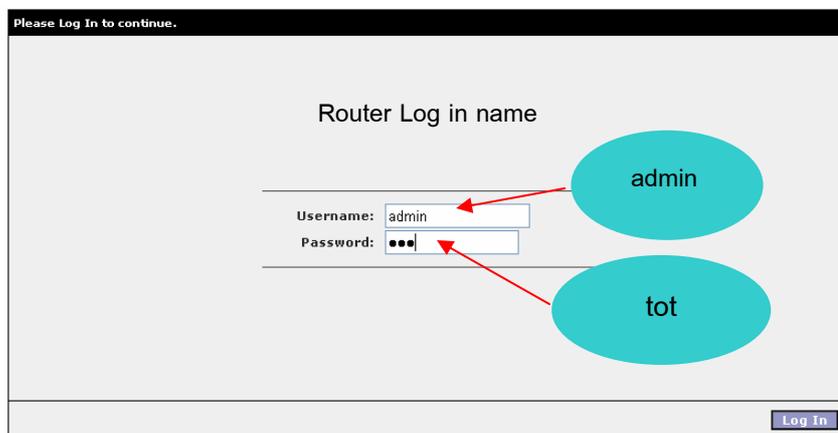
11.1 Click **Internet Explorer** icon to open the web browser



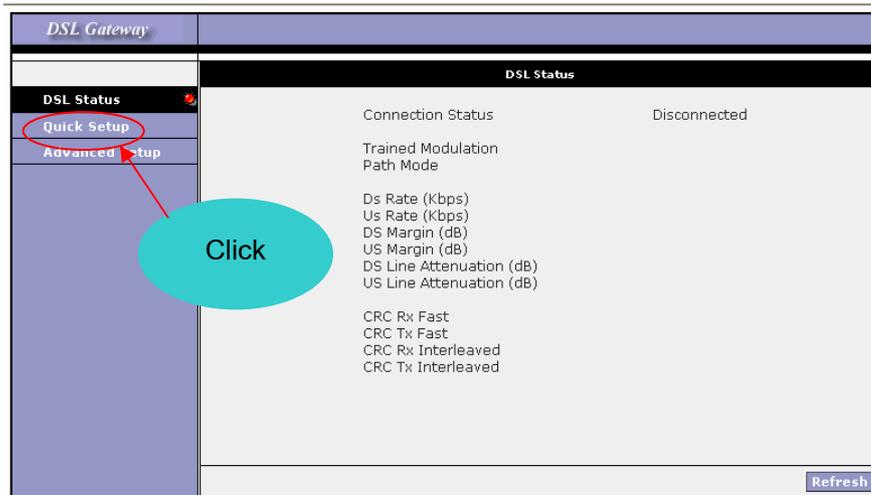
11.2 Fill IP address "192.168.1.1" and then press **Enter**



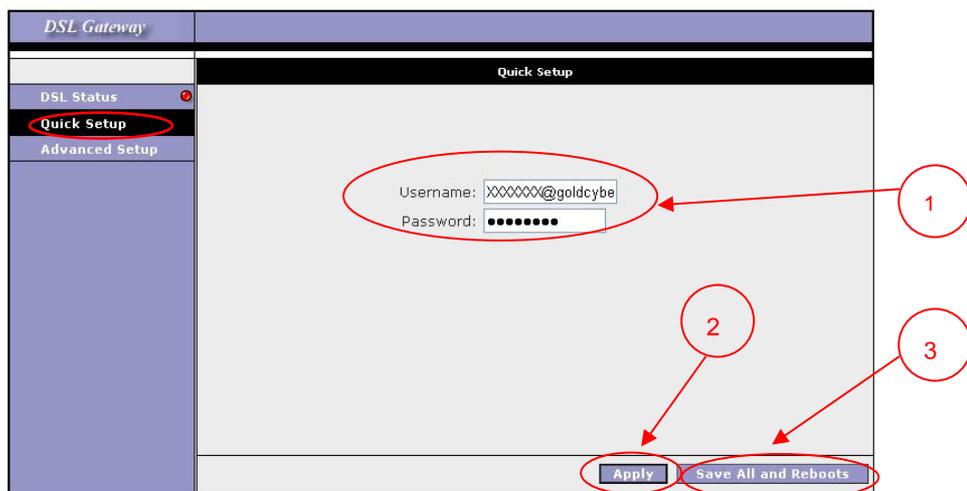
11.3 Fill in Username: admin and Password: tot. Then click **Log in** button



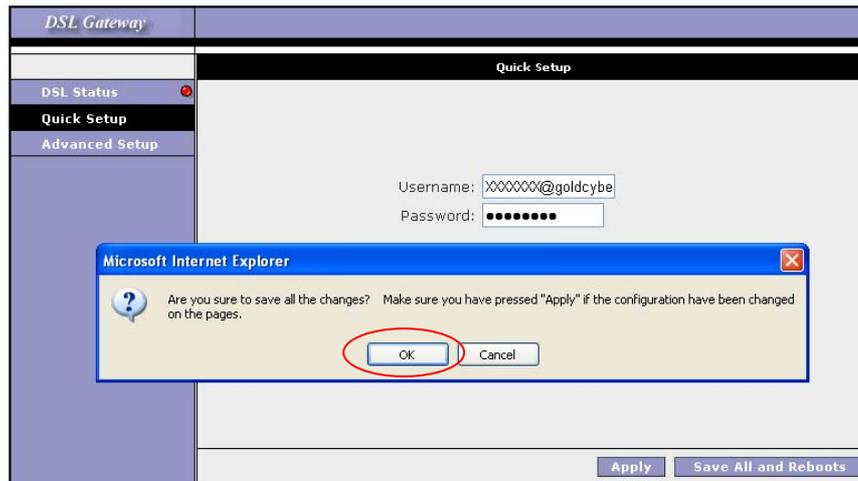
11.4 Click **Quick Setup** tab



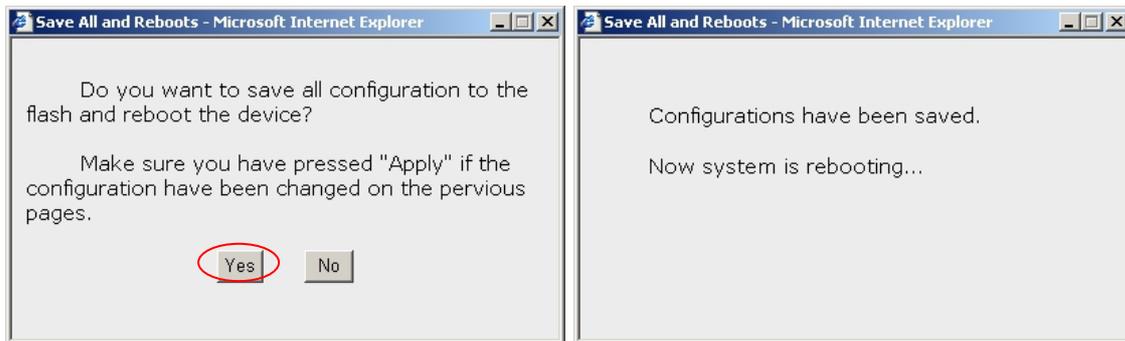
11.5 Please fill in Username and Password, assigned by TOT. Click **Apply** button, and then click **Save ALL and Reboots** button.



11.6 When the message box is shown, click **OK** button.



11.7 Click **Yes** button, and then Modem will save and reboot automatically.



11.8 Wait for a while until three LEDs for LAN, Internet, and DSL status go solid, and then you can surf webs now.

12.3 Fill in Username: **admin** and Password: **tot**. Then click **Log in** button

Please Log In to continue.

Router Log in name

Username:

Password:

admin

tot

[Log In](#)

12.4 Click **Advanced Setup** tab

DSL Gateway

DSL Status

Quick Setup

Advanced Setup

DSL Status

Connection Status: Disconnected

Trained Modulation

Path Mode

Ds Rate (Kbps)

Us Rate (Kbps)

DS Margin (dB)

US Margin (dB)

DS Line Attenuation (dB)

US Line Attenuation (dB)

CRC Rx Fast

CRC Tx Fast

CRC Rx Interleaved

CRC Tx Interleaved

Click

[Refresh](#)

12.5 Click **NEW Connection** tab to build a new connection specified for TOT *

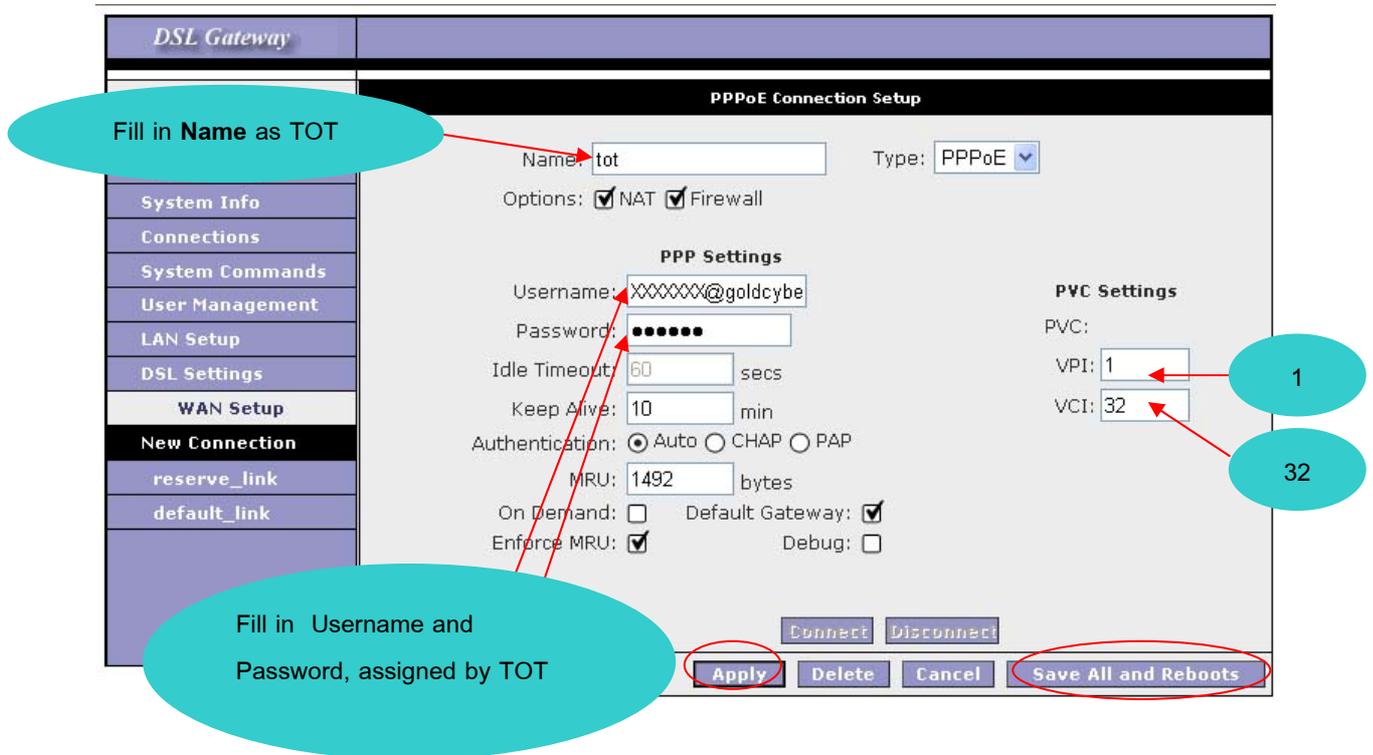
The screenshot shows the 'DSL Gateway' configuration interface. On the left is a sidebar with navigation tabs: DSL Status, Quick Setup, System Info, Connections, System Commands, User Management, LAN Setup, DSL Settings, WAN Setup, **New Connection** (highlighted with a red circle), reserve_link, and default_link. The main content area is titled 'Bridged Connection Setup'. It contains a 'Name' text input field and a 'Type' dropdown menu set to 'Bridge'. Below this are two sections: 'Bridge Settings' with 'Encapsulation' options 'LLC' (selected) and 'VC', and 'PVC Settings' with 'VPI' and 'VCI' input fields, both set to '0'. At the bottom of the main area are four buttons: 'Apply', 'Delete', 'Cancel', and 'Save All and Reboots'.

TOT default * VPI : 1 , VCI : 32 , Type : PPPOE LLC

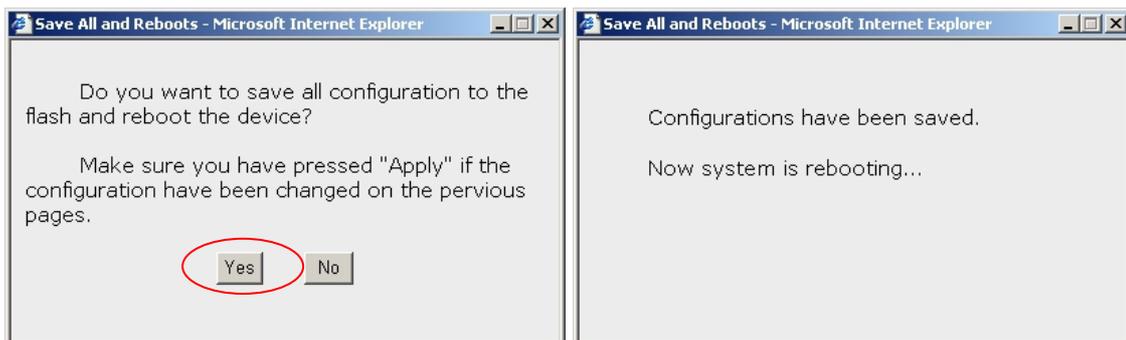
12.6 Select **Type** as PPPoE

This screenshot is identical to the previous one, but the 'Type' dropdown menu is open, showing a list of connection types: Bridge, **PPPoE** (highlighted with a red circle), PPPoA, Static, DHCP, Bridge, and CLIP. The rest of the interface, including the sidebar and other settings, remains the same.

12.7 Fill in **Name**, **Username**, **Password**, **VPI**, and **VCI**. Click **Apply** button, and then click **Save ALL and Reboots** button.



12.8 Click **Yes** button, and then Modem will save and reboot automatically.



12.9 Wait for a while until three LEDs for LAN, Internet, and DSL status go solid, and then you can surf webs now.

Troubleshooting

1. Cannot surf webs

1.1 DSL LED continues to blink but does not go solid. This means that the DSL line is trying to train but for some reason it cannot establish a valid connection.

solution

1.1.1 Check for "Dial tone". If no dial tone, please look for the location of the telephone line disconnect.

1.1.2 Check for any equipment connected to the telephone line, which is connected to **Line** port of splitter, such as fax, answering machine, and etc. If you found one, please disconnect it

1.1.3 Try connecting the telephone line directly to modem (no splitter used). If direct connection is OK, cables are incorrectly connected to the splitter or the splitter is malfunction.

1.2 DSL LED is on and solid, but Internet LED is off. This means that ADSL signal is synchronized, but modem configuration is incorrect.

solution

1.2.1 Verify these parameters: VPI=1, VCI=32, Type = PPPoE, and Encapsulation = LLC.

1.2.2 Username and Password have no capital letter and no space. Please try to fill Username and Password again.

2. ADSL connection loss often

2.1 Check for any equipment connected to the telephone line, which is connected to **Line** port of splitter, such as fax, answering machine, and etc. If you found one, please disconnect it, or use **Micro Filter** or **Single Line Splitter** connecting between it and the telephone line. Otherwise you must move it to connect the telephone line, which is connected to **Phone** port of splitter.

2.2 Reduce noise on telephone line

2.2.1 Should not connect 56 kbps modem.

2.2.2 The telephone line should not be near power lines, air condition, and any electric appliance.

2.2.3 Check telephone line connectors. Eliminate any oxide on them and make sure the telephone line connected tightly.

2.2.4 Turn off and on modem. Disconnect the cable between the modem and the computer, and then reconnect them.

3. Listen noise as using telephone

3.1 Verify cable connection on splitter.

3.2 Check the bridge tab on the telephone line. The bridge tab must be on the telephone line connected to **Phone** port of splitter.

3.3 In case that the bridge tab can not be as the recommendation in 3.2, please use **Micro Filter** or **Single Line Splitter** connecting between your telephone set and the telephone line.

If ADSL modem is defect or you have any question about it, please contact us:

Help Desk 5 lines (Kriangpat Co.,Ltd)

0-5218-6749-53 : 8.30-22.00 o'clock

0-2253-0614-8 Ext 501,502,312 : 8.30-17.30 o'clock

Find more Information, FAQ,Downlond user'smanual at :

www.himark-tel.com

TOT Call Center 1100