
Vigor2600 Series introduction

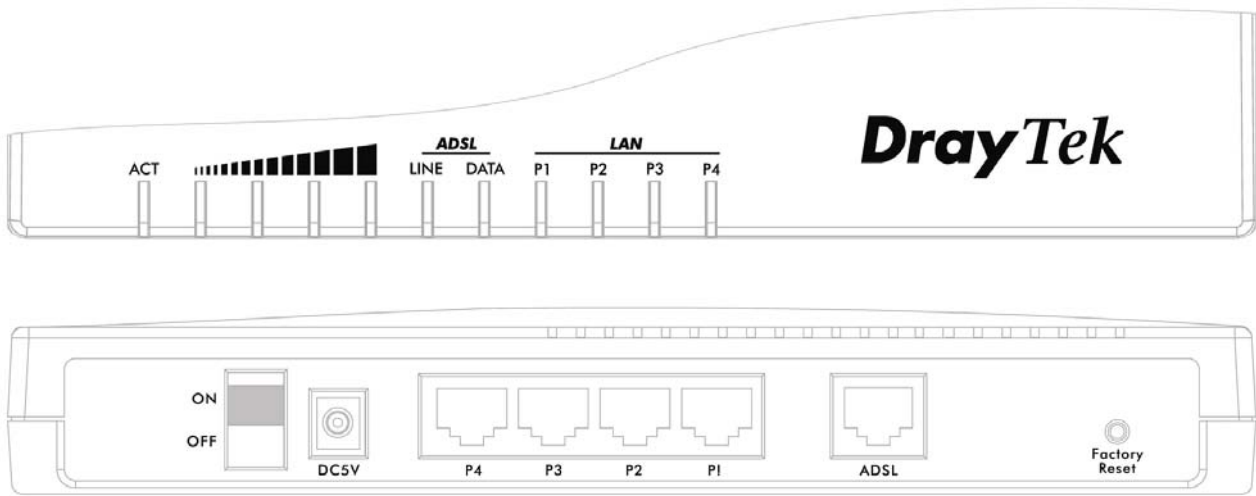


	<i>Vigor2600</i>	<i>Vigor2600X</i>	<i>Vigor2600We</i>	<i>Vigor2600W</i>
ADSL Routers	*	*	*	*
Annex A/Annex B	*/*	*/*	*/*	*/*
ISDN Backup	-	*	-	*
Wireless AP	-	-	*	*

The Vigor2600 series is an Internet access solution for your LAN which not only provides shared web surfing but countless other value-added features such as security, VPN and multimedia support, all in a reliable one-box solution.

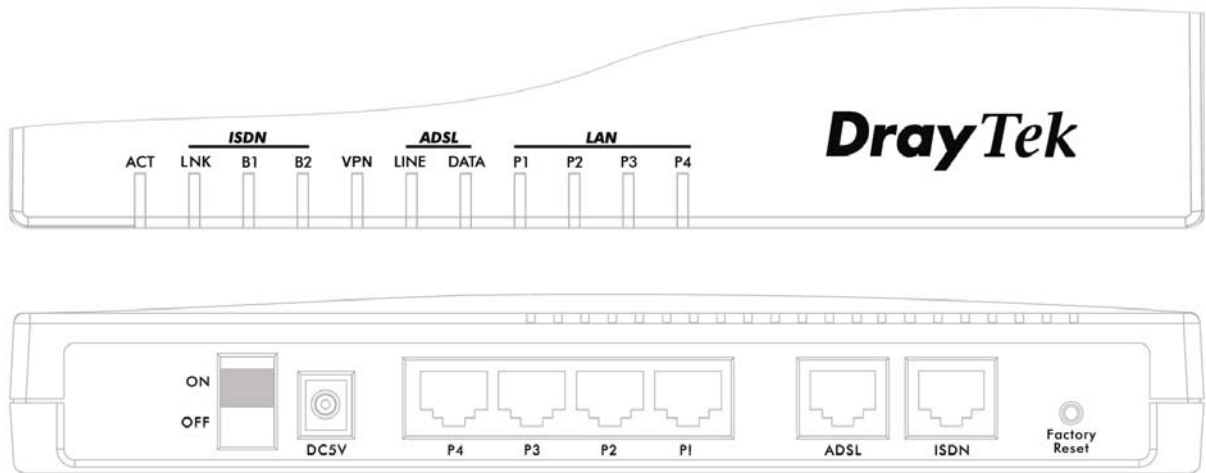
LED Indicators and Back Panels Each of the Vigor2600 series router has different front and rear panels. Before you begin to install, please take a moment to become more familiar with the LED indicators and rear panels. The following sections describe the models individually.

Vigor2600



LED Indicators	Descriptions	
ACT (Activity)	Blink when power is supplied to the router and the router is running normally.	
	There are four LEDs below the bandwidth utilization bar. From left to right they indicate bandwidth utilization, from low to high.	
ADSL	LINE	ON when the ADSL network is correctly setup
	DATA	Blinking indicates the DSL protocols start handshaking. The light will remain still when data transmission is available.
LAN	These indicators are dual-color LEDs: Yellow means the port is connected to a 10Mbps device, and Green indicates the connected device is 100Mbps.	
P1,P2,P3,P4	ON when the connected network device has been linked up correctly. Blinking when there are Ethernet packets passing through the switch port.	
Back Panels	Descriptions	
PWR	ON/ turn on power. OFF/ switch off the power.	
DC 5V	Only the power adapter comes with the package can be connected to the DC 5V power jack.	
P1,P2,P3,P4	These switch ports should be connected to your local PCs.	
ADSL	To connect the ADSL cable to your telephone jack.	
Factory Reset	The restore default settings: While the router is running (ACT LED blinking), press the button and hold for more than five seconds. The ACT LED begins to blink rapidly, then release the button. The router will restart with the factory default configuration.	

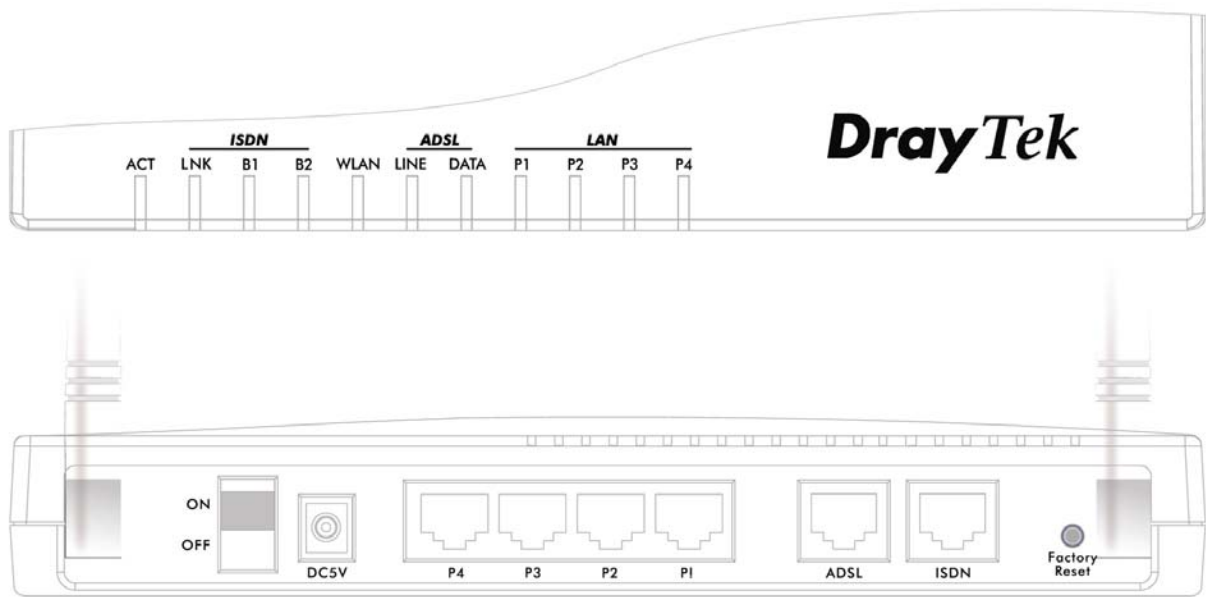
Vigor2600X



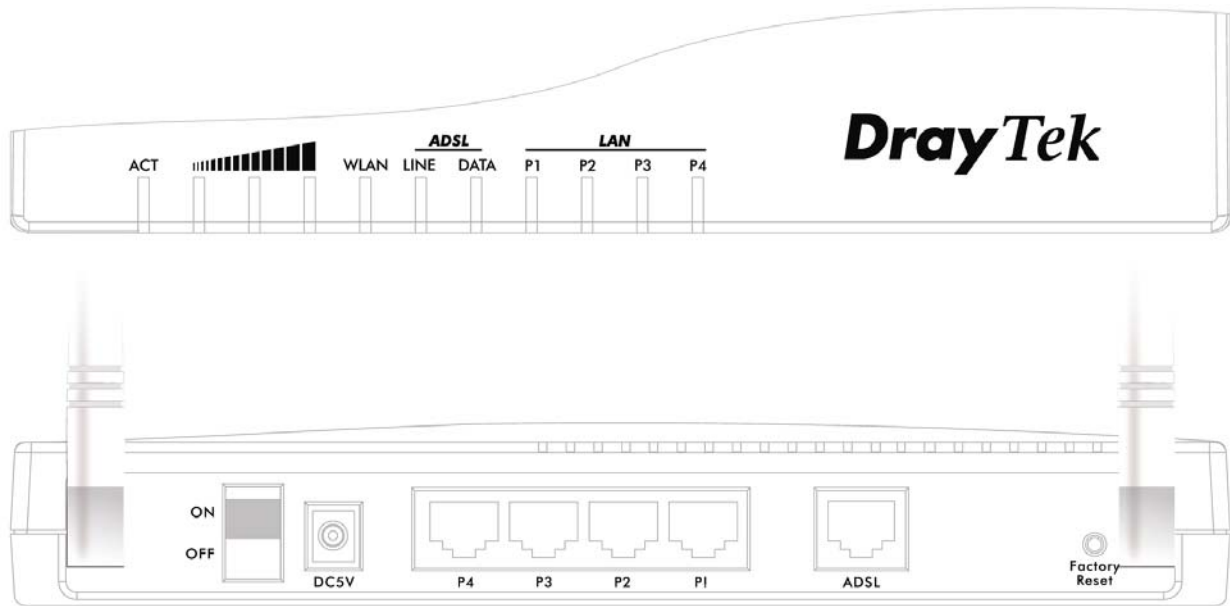
LED Indicators	Descriptions	
ACT (Activity)	Blink when power is supplied to the router and the router is running normally.	
ISDN	LNK	ON when the ISDN network is correctly setup. <i>Note: For some NT-1 boxes, the ISDN LINK LED will go OFF when the ISDN line has been idle for a while. When the router is dialing or answering a call, it should be ON again.</i>
	B1	ON when there is a successful remote connection on the ISDN BRI B1 channel.
	B2	ON when there is a successful remote connection on the ISDN BRI B2 channel.
VPN	ON when VPN is active.	
ADSL	LINE	ON when the ADSL network is correctly setup.
	DATA	Blinking indicates the DSL protocols start handshaking. The light will remain still when data transmission is available.
LAN P1,P2,P3,P4	These indicators are dual-color LEDs: Yellow means the port is connected to a 10Mbps device, and Green indicates the connected device is 100Mbps. ON when the connected network device has been linked up correctly. Blinking when there are Ethernet packets passing through the switch port.	


Back Panels	Descriptions
PWR	ON/ turn on power. OFF/ switch off the power. Only the power adapter comes with the package can be connected to the DC 5V power jack.
DC 5V	To connect Vigor2600 to an electrical outlet.
P1,P2,P3,P4	These switch ports should be connected to your local PCs.
ADSL	To connect the ADSL cable to your telephone jack.
ISDN	Connected to an external NT1 (or NT1+) box provided by your ISDN service provider.
Factory Reset	The restore default settings: While the router is running (ACT LED blinking), press the button and hold for more than five seconds. The ACT LED begins to blink rapidly, then release the button. The router will restart with the factory default configuration.

Vigor2600W



LED Indicators		Descriptions
ACT (Activity)		Blink when power is supplied to the router and the router is running normally.
ISDN	LNK	ON when the ISDN network is correctly setup. <i>Note: For some NT-1 boxes, the ISDN LINK LED will go OFF when the ISDN line has been idle for a while. When the router is dialing or answering a call, it should be ON again.</i>
	B1	ON when there is a successful remote connection on the ISDN BRI B1 channel.
	B2	ON when there is a successful remote connection on the ISDN BRI B2 channel.
WLAN		ON when the wireless LAN is ready.
ADSL	LINE	ON when the ADSL network is correctly setup.
	DATA	Blinking indicates the DSL protocols start handshaking. The light will remain still when data transmission is available.
LAN P1,P2,P3,P4		These indicators are dual-color LEDs: Yellow means the port is connected to a 10Mbps device, and Green indicates the connected device is 100Mbps. ON when the connected network device has been linked up correctly. Blinking when there are Ethernet packets passing through the switch port.
Back Panels		Descriptions
PWR		ON /turn on power. OFF /switch off the power. Only the power adapter comes with the package can be connected to the DC 5V power jack.
DC 5V		To connect Vigor2600 to an electrical outlet.
P1,P2,P3,P4		These switch ports should be connected to your local PCs.
ADSL		To connect the ADSL cable to your telephone jack.
ISDN		Connected to an external NT1 (or NT1+) box provided by your ISDN service provider.
Factory Reset		The restore default settings: While the router is running (ACT LED blinking), press the button and hold for more than five seconds. The ACT LED begins to blink rapidly, then release the button. The router will restart with the factory default configuration.



LED Indicators	Descriptions	
ACT (Activity)	Blink when power is supplied to the router and the router is running normally.	
	There are three LEDs below the bandwidth utilization bar. From left to right they indicate bandwidth utilization, from low to high..	
WLAN	ON when the wireless LAN is ready.	
ADSL	LINE	ON when the ADSL network is correctly setup.
	DATA	Blinking indicates the DSL protocols start handshaking. The light will remain still when data transmission is available.
LAN	These indicators are dual-color LEDs: Yellow means the port is connected to a 10Mbps device, and Green indicates the connected device is 100Mbps.	
P1,P2,P3,P4	ON when the connected network device has been linked up correctly. Blinking when there are Ethernet packets passing through the switch port.	

Back Panels	Descriptions
PWR	ON /turn on power. OFF /switch off the power.
DC 5V	Only the power adapter comes with the package can be connected to the DC 5V power jack.
P1,P2,P3,P4	To connect Vigor2600 to an electrical outlet.
ADSL	These switch ports should be connected to your local PCs.
ADSL	To connect the ADSL cable to your telephone jack.
Factory Reset	The restore default settings: While the router is running (ACT LED blinking), press the button and hold for more than five seconds. The ACT LED begins to blink rapidly, then release the button. The router will restart with the factory default configuration.

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Safety Instructions

- . Read the installation guide thoroughly before you set up the router.
- . The router is a complicated electronic unit that may be repaired only by authorized and qualified personnel. Do not try to open or repair the router yourself.
- . Do not place the router in a damp or humid place, e.g. a bathroom.
- . The router should be used in a sheltered area, within a temperature range of +5 to +40 Celsius.
- . Do not expose the router to direct sunlight or other heat sources. The housing and electronic components may be damaged by direct sunlight or heat sources.
- . Keep the package out of reach of children.
- . When you want to dispose of the router, please follow local regulations on conservation of the environment.

Warranty

We warrant to the original end user (purchaser) that the router will be free from any defects in workmanship or materials for a period of three (3) years from the date of purchase from the dealer. Please keep your purchase receipt in a safe place as it serves as proof of date of purchase. During the warranty period, and upon proof of purchase, should the product have indications of failure due to faulty workmanship and/or materials, we will, at our discretion, repair or replace the defective products or components, without charge for either parts or labor, to whatever extent we deem necessary to restore the product to proper operating condition. Any replacement will consist of a new or re-manufactured functionally equivalent product of equal value, and will be offered solely at our discretion. This warranty will not apply if the product is modified, misused, tampered with, damaged by an act of God, or subjected to abnormal working conditions. The warranty does not cover the bundled or licensed software of other vendors. Defects which do not significantly

affect the usability of the product will not be covered by the warranty. We reserve the right to revise the manual and online documentation and to make changes from time to time in the contents hereof without obligation to notify any person of such revision or changes.

European Community

Hereby, we declare that the router is in compliance with the essential requirements and other relevant provisions of R&TTE Directive 99/5/EC.

**Be A Registered
Owner**

Web registration is preferred. You can register your Vigor router via <http://www.draytek.com.tw>. Alternatively, fill in the registration card and mail it to the address found on the reverse side of the card.

**Firmware & Tools
Updates**

Due to the continuous evolution of DrayTek ADSL & Router technology, all routers will be regularly upgraded. Please consult the DrayTek web site for more information on newest firmware, tools and documents.
<http://www.draytek.com.tw>

Vigor2600 Series Start Guide Quick

Aim of this chapter

Quickly connect your router to the Internet

Delivery check

Check your router package for the following items :

The Router

1 printed Quick Start Guide with warranty/ registration card

1 CD includes detailed User Manual in electronic form, released firmware and utilities

1 AC/DC power supply adapter (black)

1 Ethernet LAN cable (blue) for connection to a computer or hub

1 ADSL line cable (RJ-11, black)

1 ISDN line cable (RJ-45, black) for Vigor2600X/ Vigor2600W only

2 external antennas for Vigor2600W/ Vigor2600We only

Identify your variant

Your router package should contain all these items. If any item is missing or damaged, contact your dealer or our Customer Service Department immediately.

The Vigor2600 series all contain Annex A/Annex B models, please check if the package is suitable for your using. You can get the information from bottom of Vigor2600 series router.

Annex A : connecting to an analog POTS line

Annex B : connecting to a digital ISDN line

DrayTek Corp.

Model: Vigor2600(Annex B)

<http://www.draytek.com.tw>

e-mail: support@draytek.com.tw

Power Consumption : 10W(MAX.)

Power Input : 5VDC, 2400~2800mA(MIN.)



**What you
need from ISP**

DSL line

Depending on the variant Vigor2600 series you purchased, the following DSL service must be available at your local premisses:

ADSL over POTS [Annex A] :

ADSL service must be enabled on your POTS telephone line.

ADSL over ISDN [Annex B] :

ADSL service must be enabled on your ISDN telephone line.

DSL Parameters

It should provide at least the following information from ISP :

1. The VPI/VCI of the virtual channel to use on the DSL line
2. Protocol : PPPoE, PPPoA or MPoA (RFC1483/2684)
3. Encapsulation Method : LLC/SNAP or VCMUX
4. Modulation Method : T1.413, G.lite, G.DMT
(Vgior2600 series provides ***multimode*** which can automatically detect)

DrayTek Router Web Configurator
 > Quick Setup > Internet Access Setup << Main Menu
 MPoA (RFC1483/2684) Mode << Back

MPoA (RFC1483/2684) Enable Disable
 Encapsulation: 1483 Bridged IP LLC

DSL Modem Settings
 VPI: 0
 VCI: 33
 Modulation: Multimode

WAN IP Network Settings
 Obtain on IP address automatically
 Router Name: _____
 Domain Name: _____
 * : Required for some ISPs
 Specify an IP address: WAN IP Assign
 IP Address: 0.0.0.0
 Subnet Mask: 255.255.255.0
 Gateway IP Address: _____

RIP Protocol
 Enable RIP

OK

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DrayTek Router Web Configurator
 > Quick Setup > Internet Access Setup << Main Menu
 PPPoE / PPPoA Client Mode << Back

PPPoE/PPPoA Client Enable Disable

DSL Modem Settings
 VPI: 0
 VCI: 33
 Encapsulating Type: LLC/SNAP
 Protocol: PPPoE
 Modulation: Multimode

ISP Access Setup
 ISP Name: _____
 Username: T0177921
 Password: *****
 Always On
 Idle Timeout: 1 second(s)
Scheduler (1-15)
 , , ,

OK

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Example:

VPI/VCI = 0/33
 Protocol = PPPoA
 Encapsulation Method = VCMUX
 Modulation Method = G.DMT

Username/Password

Only for PPPoE/PPPoA mode users

Fixed IP Address/ Subnet Mask/ Gateway IP Address

Only for MPoA mode users. Some ISP will use DHCP method to provide IP address for MPoA mode users, then users do not need to know the fixed IP address.

If you do not know these information in detail, please contact your ISP to get these informations.

What you need in your side

Local networking

To use the Ethernet port(s) you need at least:

One PC with an Ethernet Card installed.

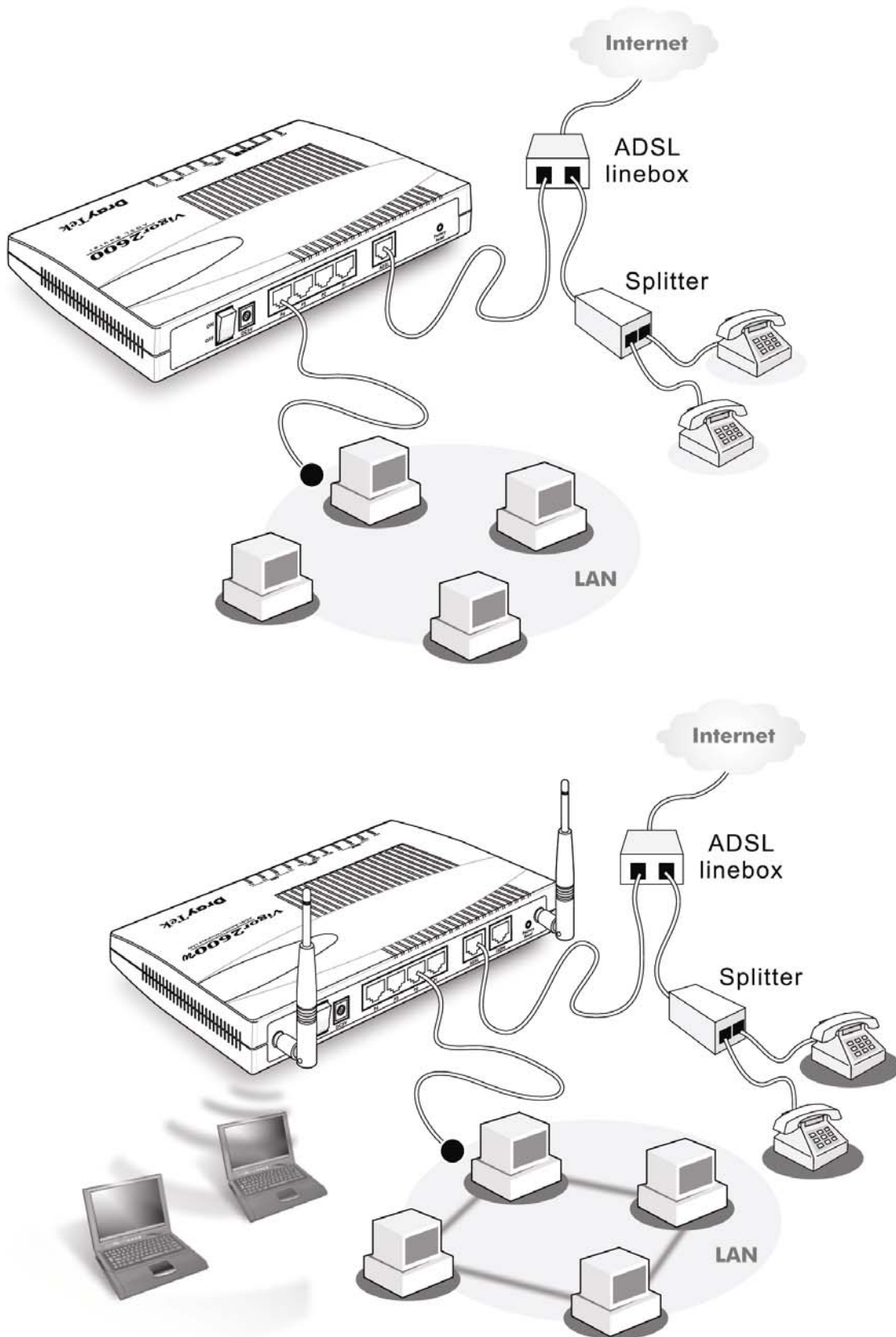
TCP/IP protocol suite

For TCP/IP, your PC can set either static IP or DHCP to ask IP from router. The default gateway of router is 192.168.1.1. If static IP is chosen, you can set 192.168.1.x for your PC.

A Web browser

The wire installation

Ethernet port (between router and PC), DSL port and Power port as below:



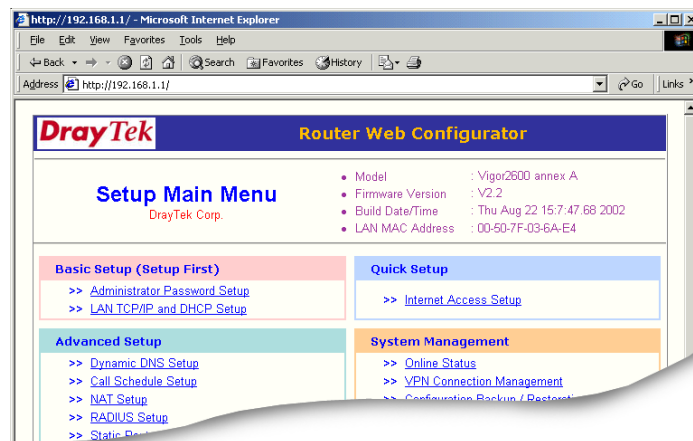
Install ‘ Router Tools ’ This tool which provides ‘ Smart Start Wizard ’, ‘ Firmware Upgrade Program ’ and ‘ TFTP client ’ is in the attached CD. It supports Windows, Mac OS 8/9 and Mac OS X. Moreover, it provides ‘ Syslog Tool ’ for Windows system. For Vigor2600X and Vigor2600W models, there is virtual TA program for the usage of ISDN AP.

Turn on your router Once all previous steps are completed, turn on your router. After Power is on, the ‘ ACT ’ LED and corresponding LAN port LED will light.

If the LEDs do not light normally, please refer to section A, ‘ Trouble Shooting ’, for further information.

Connect to router If the PC is set to obtain IP address automatically (recommended), you can use Windows winipcfg.exe or ipconfig.exe to check if it has obtained an IP address from the router. If not, please reboot PC and ensure that it has obtained an IP address from the router.

Then you can use ‘ Smart Start Wizard ’ to configure router or connect to router via Web browser directly. The default IP of router is 192.168.1.1.



Password The default password is null. You can press ‘ OK ’ to skip it.



Enter Router Menu

Once past the password prompt, you will now see the router's main menu:

(Example: Vigor2600)

The screenshot shows the DrayTek Router Web Configurator interface. At the top, there is a blue header with the DrayTek logo and the text "Router Web Configurator". Below the header, the main menu is displayed. On the left, there is a "Setup Main Menu" section with the DrayTek Corp. logo. To the right, there is a list of system information: Model: Vigor2600, Firmware Version: v2.1b, Build Date/Time: Thu Apr 11 19:19:39.6 2002, and LAN MAC Address: 00-50-7F-00-00-00. The main menu is divided into four sections: "Basic Setup (Setup First)" with links for Administrator Password Setup and LAN TCP/IP and DHCP Setup; "Advanced Setup" with links for Dynamic DNS Setup, Call Schedule Setup, NAT Setup, RADIUS Setup, Static Route Setup, IP Filter/Firewall Setup, and VPN and Remote Access Setup; "Quick Setup" with a link for Internet Access Setup; and "System Management" with links for Online Status, VPN Connection Management, Configuration Backup / Restoration, SysLog Setup, Time Setup, Management Setup, Diagnostic Tools, Reboot System, and Firmware Upgrade (TFTP Server).

Set DSL Parameters

Click on 'Internet Access Setup' on the right-hand menu.

You will find two items : PPPoE/PPPoA and MPoA (RFC 1483/2684).

Then You can continually enter setting menu according to the protocol which ISP assigns.

The screenshot shows the DrayTek Router Web Configurator interface for the "Internet Access Setup" screen. The breadcrumb trail at the top reads "> Quick Setup > Internet Access Setup" and there is a "<< Main Menu" link. The main content area is titled "Select the Internet Access Mode:" and contains a list of options: "DSL Modem Internet Access" (highlighted in blue), "Auto detect ATM/DSL settings", ">> PPPoE / PPPoA", and ">> MPoA (RFC1483/2684)". At the bottom, there is a blue footer with the text "Copyright (c) 2002, DrayTek Corp. All Rights Reserved."

For PPPoE/PPPoA Users

Enter your allocated username, password and DSL parameters according to the information provided by your ISP.

If you want to connect to Internet all the time, you can check 'Always On'.

The screenshot shows the 'Router Web Configurator' interface for 'PPPoE / PPPoA Client Mode'. The page title is 'DrayTek Router Web Configurator'. The breadcrumb is '> Quick Setup > Internet Access Setup'. There are links for '<< Main Menu' and '<< Back'. The main content area is divided into two columns. The left column is titled 'PPPoE/PPPoA Client' and has radio buttons for 'Enable' (selected) and 'Disable'. Below it is the 'DSL Modem Settings' section with fields for VPI (0), VCI (33), Encapsulating Type (LLC/SNAP), Protocol (PPPoE), and Modulation (Multimode). The right column is titled 'ISP Access Setup' and includes fields for ISP Name, Username (T0177921), Password (masked), and a checked 'Always On' checkbox. There is also an 'Idle Timeout' field set to -1 second(s) and a 'Scheduler (1-15)' section with four empty input boxes. An 'OK' button is centered below the form. At the bottom, a blue bar contains the text 'Copyright (c) 2002, DrayTek Corp. All Rights Reserved.'

For MPoA (RFC 1483/2684) Users

Enter your allocated WAN IP address(or enabling DHCP client to get IP from ISP) and DSL parameters according to the information provided by your ISP.

The screenshot shows the 'Router Web Configurator' interface for 'MPoA (RFC1483/2684) Mode'. The page title is 'DrayTek Router Web Configurator'. The breadcrumb is '> Quick Setup > Internet Access Setup'. There are links for '<< Main Menu' and '<< Back'. The main content area is divided into two columns. The left column is titled 'MPoA (RFC1483/2684)' and has radio buttons for 'Enable' (selected) and 'Disable'. Below it is the 'DSL Modem Settings' section with fields for VPI (0), VCI (33), and Modulation (Multimode). There is also a 'RIP Protocol' section with a checkbox for 'Enable RIP'. The right column is titled 'WAN IP Network Settings' and has radio buttons for 'Obtain an IP address automatically' (selected) and 'Specify an IP address'. Under 'Obtain an IP address automatically', there are fields for Router Name and Domain Name, both with asterisks. A note says '* : Required for some ISPs'. Under 'Specify an IP address', there is a 'WAN IP Alias' button and fields for IP Address (0.0.0.0), Subnet Mask (255.255.255.0), and Gateway IP Address. An 'OK' button is centered below the form. At the bottom, a blue bar contains the text 'Copyright (c) 2002, DrayTek Corp. All Rights Reserved.'

Auto detect ATM/DSL Setting

You can also use this function to detect ATM/DSL setting. Please follow the instructions to operate. If your country is not in the list, it may take longer time to detect.

Surfing Internet

Once all previous steps are completed, you can surf Internet now. You can also monitor the connection condition via router management function.

(Example: Vigor2600)

DrayTek		Router Web Configurator					
> System Management > Online Status		<< Main Menu					
System Status		System Uptime: 0:1:45					
LAN Status							
	IP Address		TX Packets		RX Packets		
	192.168.1.1		380		295		
WAN Status		GW IP Addr 61.224.112.254		>> Drop PPPoE/PPPoA			
Mode	IP Address	TX Packets	TX Rate	RX Packets	RX Rate	Up Time	
PPPoE	61.224.112.148	8	38	10	22	0:00:01	
ADSL Information		(ADSL Firmware Version: 40e2be29)					
ATM Statistics		TX Blocks	RX Blocks	Corrected Blocks	Uncorrected Blocks		
		231288	231081	58581	0		
ADSL Status		Mode	State	Up Speed	Down Speed	SNR Margin	Loop Att.
		G.DMT	SHOWTIME	64000	512000	11.0	25.5

Wireless LAN Setting

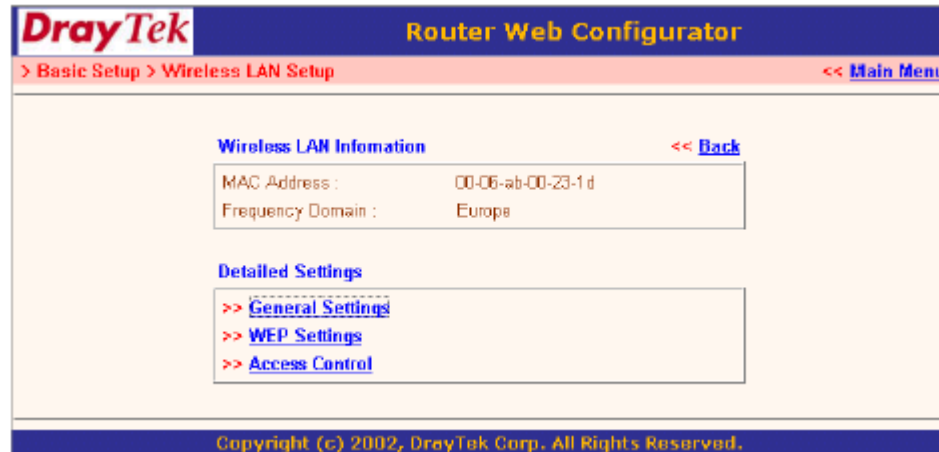
Wireless setting is for Vigor2600W and Vigor2600We only.



If you want to connect your wireless supported devices to Vigor2600W or Vigor2600We, you need to configure the router before you start to use it.

Wireless LAN Interface

The Vigor2600W and Vigor2600We are equipped with a wireless LAN interface compliant with the 11Mbps IEEE 802.11b protocol. The features of wireless LAN capability enable high mobility of several simultaneous users accessing all LAN facilities just like on a wired LAN as well as Internet and WAN access.



DrayTek Router Web Configurator

> Basic Setup > Wireless LAN Setup << Main Menu

Wireless LAN Information << Back

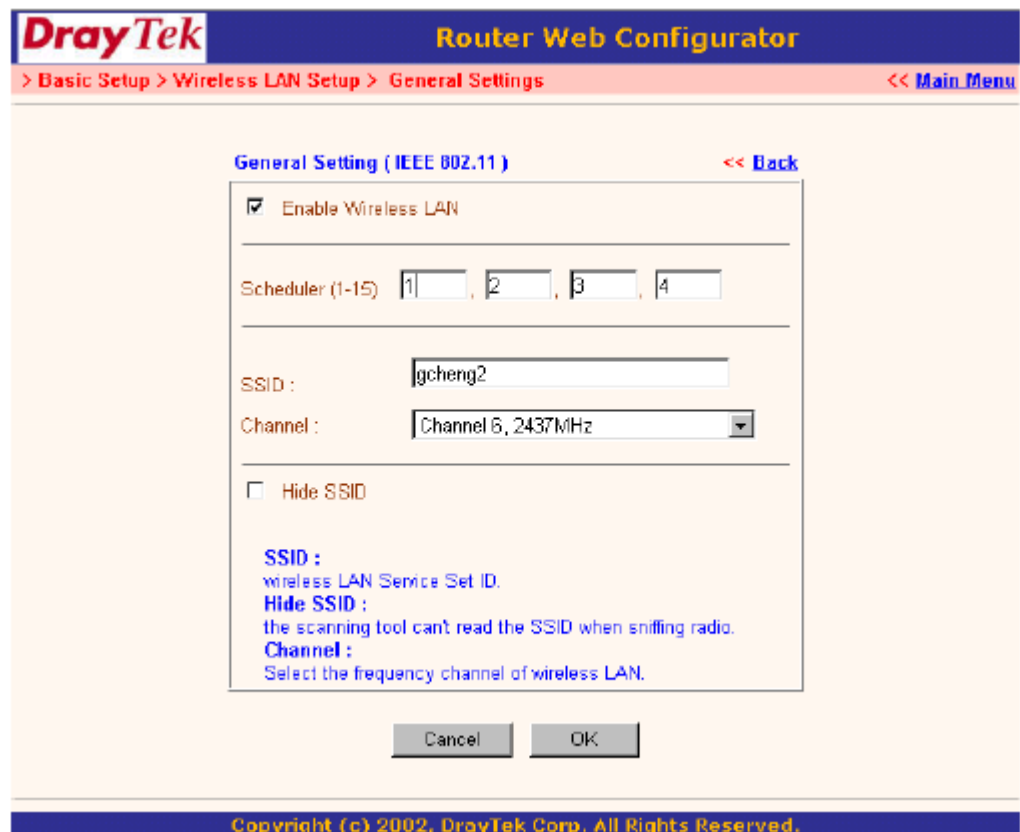
MAC Address : 00-06-ab-00-23-1d
Frequency Domain : Europe

Detailed Settings

>> General Settings
>> WEP Settings
>> Access Control

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The Frequency Domain is set as Europe and the MAC address will show as above. Click **General Settings**, you could configure the SSID and wireless channel.



DrayTek Router Web Configurator

> Basic Setup > Wireless LAN Setup > General Settings << Main Menu

General Setting (IEEE 802.11) << Back

Enable Wireless LAN

Scheduler (1-15) 1 2 3 4

SSID : lgcheng2

Channel : Channel 6, 2437MHz

Hide SSID

SSID :
wireless LAN Service Set ID.

Hide SSID :
the scanning tool can't read the SSID when sniffing radio.

Channel :
Select the frequency channel of wireless LAN.

Cancel OK

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Scheduler: You can set wireless device to work at some time interval only. These are 4 intervals you can choose: schedule1, schedule2, schedule3, and schedule4. The default setting is always working. You can set the schedule under **Advanced Setup >> Call Schedule Setup.** (Please refer to detail manual on the attached CD)

SSID(Service Set Identification): You should set the SSID same as your note book wireless card to allow the client PCs to access the network via the wireless LAN interface. The default SSID is "**default**".

Channel: To select a wireless channel for Vigor2600W / Vigor2600We. The default channel is 6.

Hide SSID: To check it to hide SSID when the wireless clients sniffing radio.

WEP Security of Wireless LAN Interface

WEP Encryption:

To improve the security and privacy of your wireless data packets the WEP encryption feature can be used. The WEP encrypts each frame transmitted from the radio using one of the keys entered from this panel. WEP encryption can be enabled by selecting 64 bits or 128 bits from pull down menu. These are 4 key sets can be entered and only one key can be selected. The key can be entered by ASCII or Hexadecimal.

The screenshot shows the 'WEP Settings' page in the DrayTek Router Web Configurator. The breadcrumb trail is '> Basic Setup > Wireless LAN Setup > WEP Settings'. The 'WEP Encryption' dropdown menu is set to 'Disable'. Below this, there are four radio buttons labeled 'Key 1' through 'Key 4', each with an empty text input field for the WEP key. The page includes instructions for 64-bit and 128-bit keys, and 'Cancel' and 'OK' buttons at the bottom.

WEP Settings << Back

WEP Encryption :

Use WEP Key

Key 1 :

Key 2 :

Key 3 :

Key 4 :

For 64 bit WEP key
Type 5 ASCII character or 10 Hexadecimal digits leading by "0x", for example "AB312" or "0x4142333132".

For 128 bit WEP key
Type 13 ASCII character or 26 Hexadecimal digits leading by "0x", for example "0123456789abc" or "0x30313233343536373839414243".

Cancel OK

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Disable: Turns off the WEP encryption mechanism.

WEP 64 Bit: For 64bits WEP key, either 5 ASCII characters or 10 hexadecimal digitals leading by **0x** can be entered. For example, **ABCDE** or **0x4142434445**.

WEP 128 Bit: For 128bits 13 ASCII characters or 26 hexadecimal digitals leading by **0x** can be entered. For exmaple, **ABCDEFGHIJKLM** or **0x4142434445464748494A4B4C4D**.

Access Control of Wireless LAN Interface

For additional security of wireless access, the **Access Control** allows your to restrict the network access rights by the wireless LAN MAC address of client. Only the valid MAC address which has been configured can allow to access the wireless LAN interface.

The screenshot displays the DrayTek Router Web Configurator interface. At the top, the DrayTek logo is on the left, and "Router Web Configurator" is on the right. Below this, a navigation bar shows the path: "> Basic Setup > Wireless LAN Setup > Access Control" on the left and "<< Main Menu" on the right. The main content area is titled "Access Control" and includes a checkbox labeled "Enable Access Control". Below the checkbox is a table with two columns: "Index" and "MAC Address". The table is currently empty. Underneath the table, there is a "MAC Address:" label followed by six input boxes for entering the MAC address in hexadecimal format (XX:XX:XX:XX:XX:XX). Below these boxes are four buttons: "Add", "Remove", "Edit", and "Cancel". A "Note:" section contains the text: "Add or remove the wireless user's MAC address to accept or deny the access to the network." At the bottom of the form area are two buttons: "Clear All" and "OK". The footer of the page reads "Copyright (c) 2002, DrayTek Corp. All Rights Reserved."

Enable Access Control: To check the **Enable Access Control** to enable the MAC Address access control feature.

MAC Address: To type the specific MAC Address which could be added on, removed from or edited from the access list above.

ADD: To add a MAC address on the list.

Remove: To remove the selected MAC address on the list.

Edit: To edit the selected MAC address on the list.

Cancel: To cancel the MAC address access control setup.

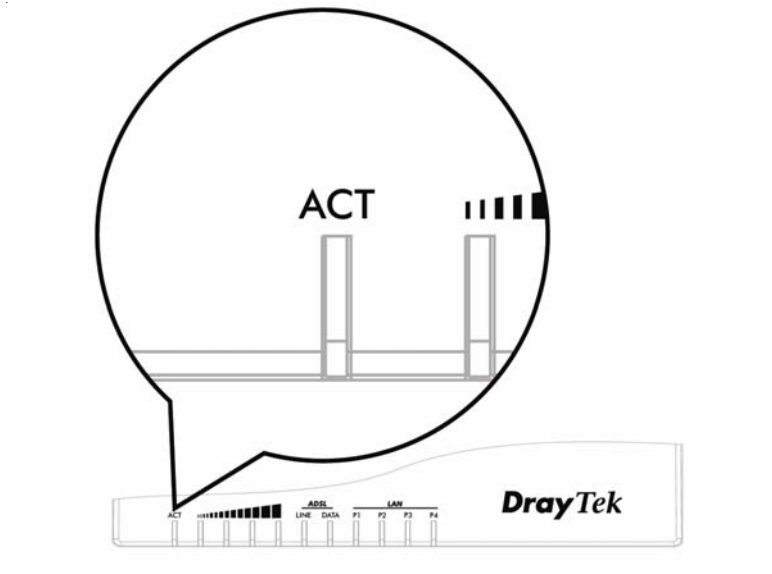
Clean All: To clean all of configured MAC address on the list.

OK: To save the access control list.

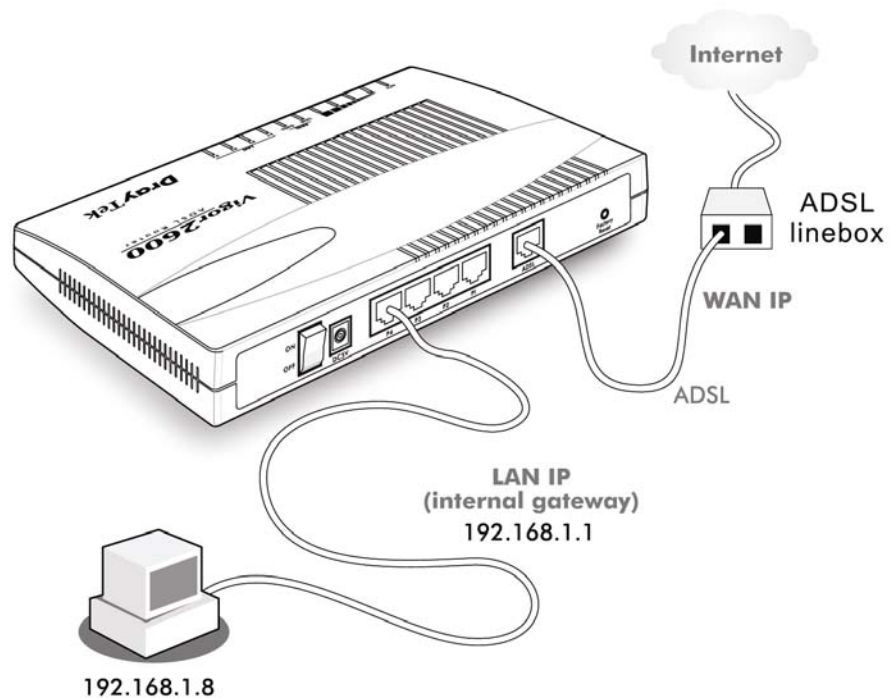
Trouble Shooting for ' Can not get on to the Internet'

Check if the hardware is OK?

Check if the power and LAN line are connected correctly. After power is on, the 'ACT' LED will blink once a second, and the correspondent LAN port will light.

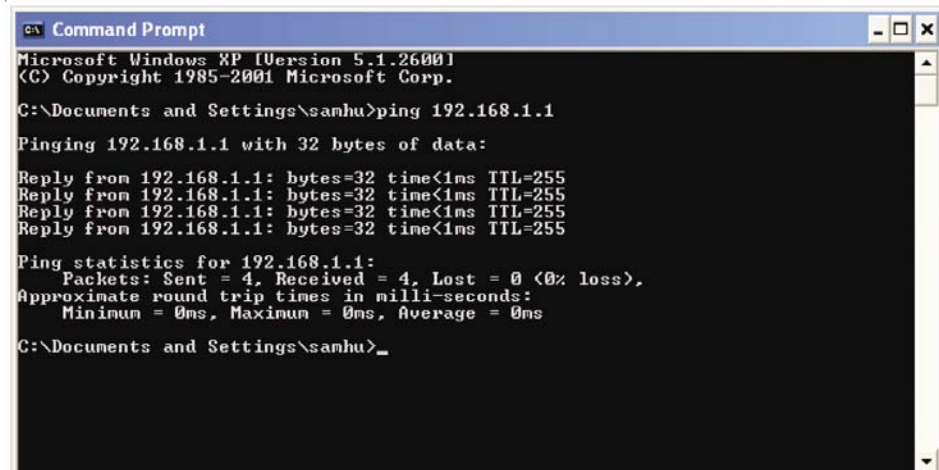


Can you ping the router from your PC?



The default gateway IP of router is 192.168.1.1.
Please check if you can ping router correctly.

For Windows



```
Command Prompt
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\sanhu>ping 192.168.1.1

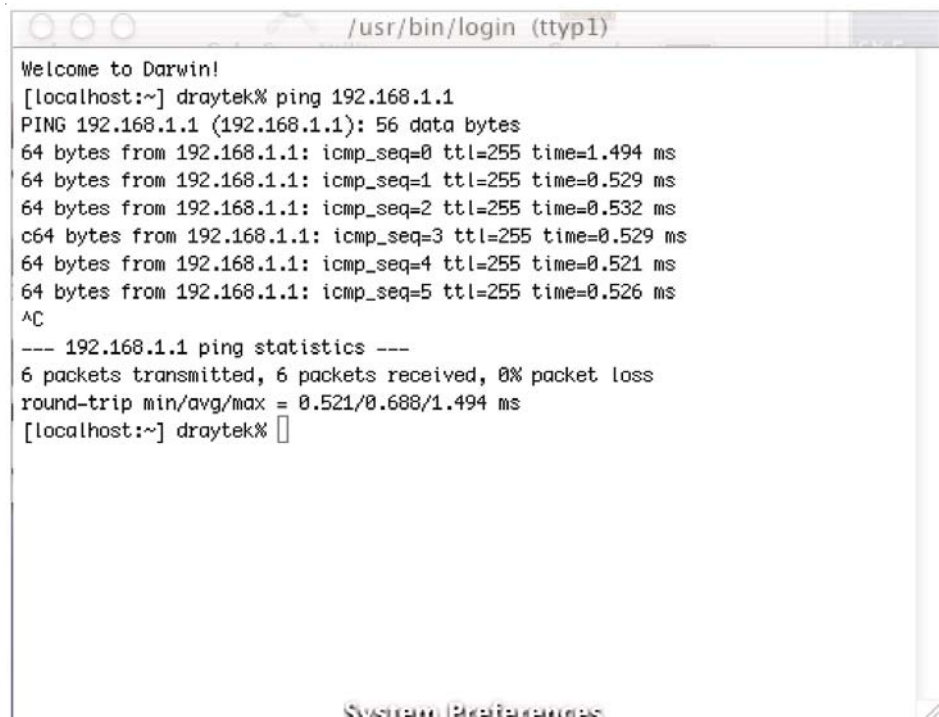
Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255

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

C:\Documents and Settings\sanhu>
```

For Mac(Terminal)



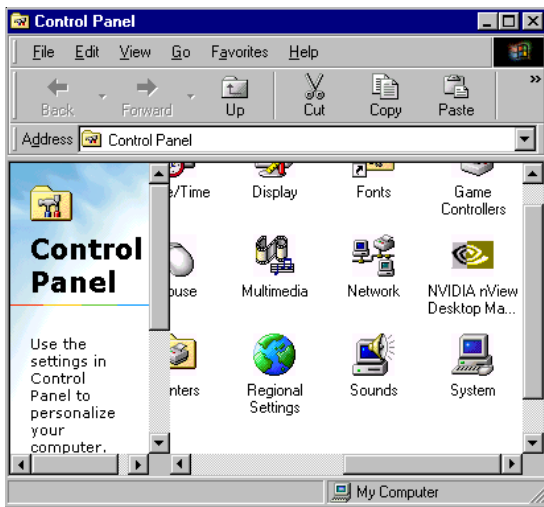
```
/usr/bin/login (tty1)

Welcome to Darwin!
[localhost:~] draytek% ping 192.168.1.1
PING 192.168.1.1 (192.168.1.1): 56 data bytes
64 bytes from 192.168.1.1: icmp_seq=0 ttl=255 time=1.494 ms
64 bytes from 192.168.1.1: icmp_seq=1 ttl=255 time=0.529 ms
64 bytes from 192.168.1.1: icmp_seq=2 ttl=255 time=0.532 ms
64 bytes from 192.168.1.1: icmp_seq=3 ttl=255 time=0.529 ms
64 bytes from 192.168.1.1: icmp_seq=4 ttl=255 time=0.521 ms
64 bytes from 192.168.1.1: icmp_seq=5 ttl=255 time=0.526 ms
^C
--- 192.168.1.1 ping statistics ---
6 packets transmitted, 6 packets received, 0% packet loss
round-trip min/avg/max = 0.521/0.688/1.494 ms
[localhost:~] draytek%
```

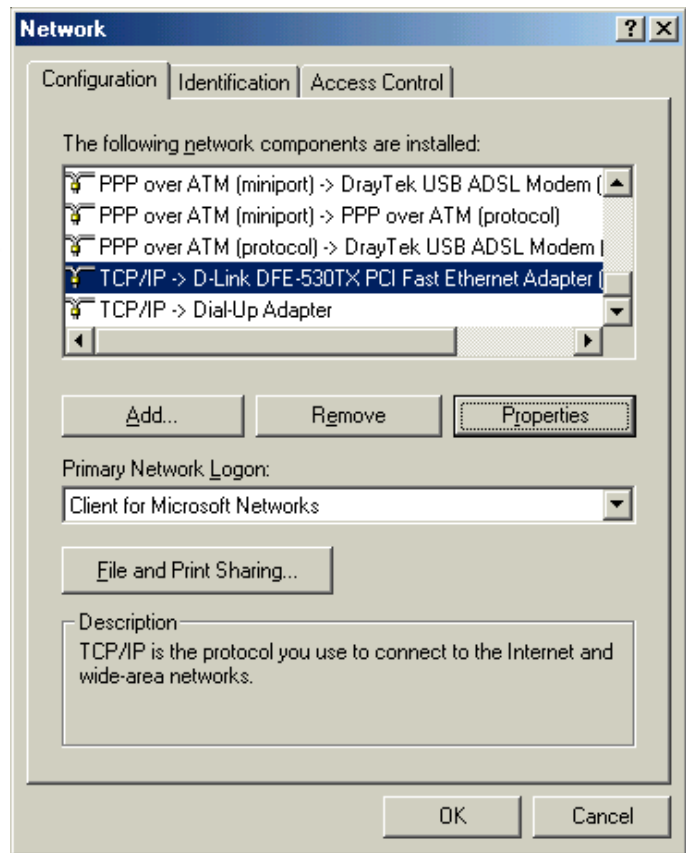
If not, please check the IP address of your PC. We suggest you set ‘ get IP automatically ‘

For Windows 98/Me user

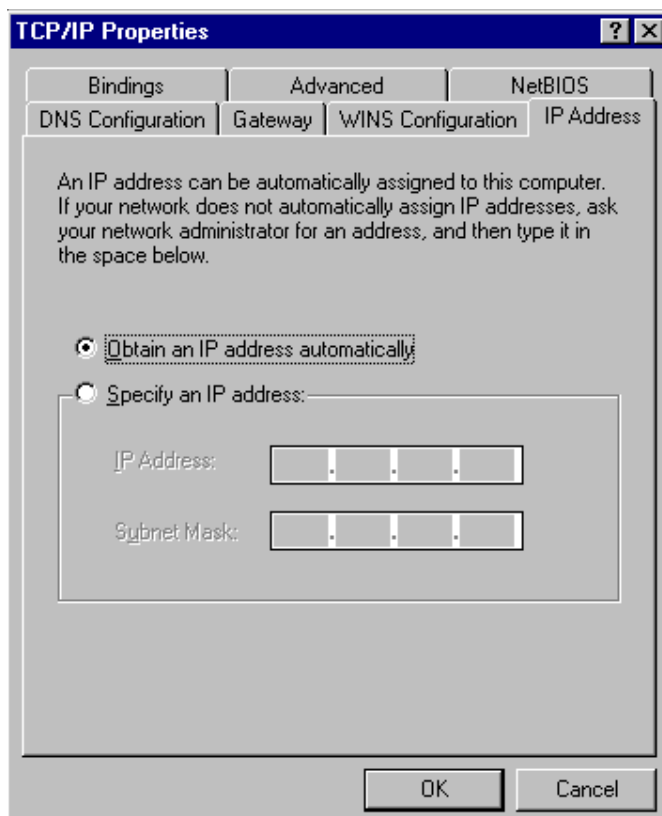
1. Enter “Control Panel” and double click “Network”.



2. Choose “TCP/IP of LAN device” and press “Properties”.



3. Choose “Obtain an IP address automatically”

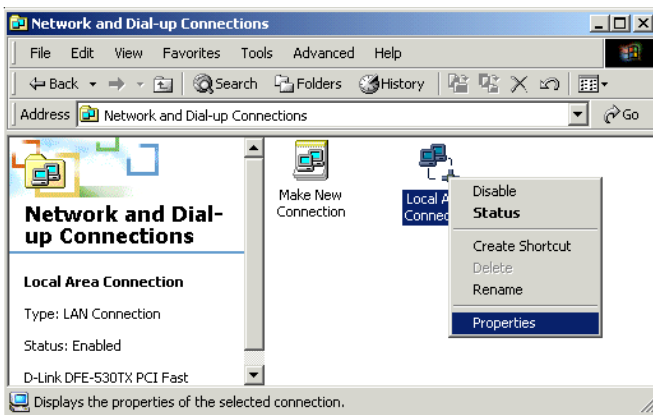


For Windows 2000 user

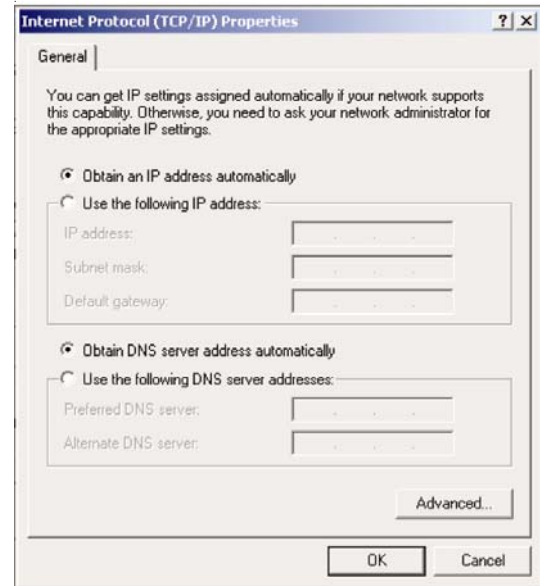
1. Enter “Control Panel” and double click “Network and Dial-up Connections”.



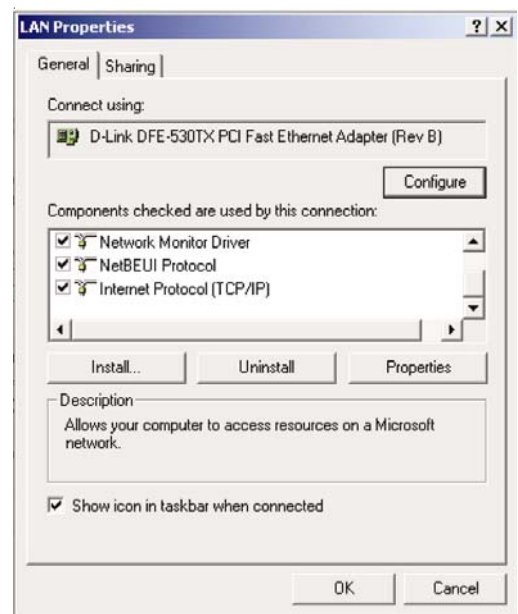
2. Right click “Local Area Connection” and choose “Properties”.



4. Select ‘Obtain an IP address automatically’.

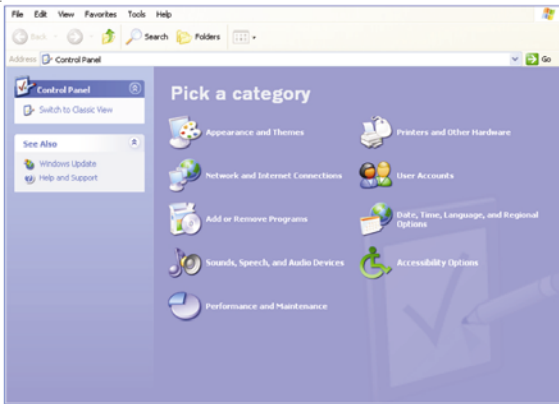


3. Choose “TCP/IP” and press “Properties”.

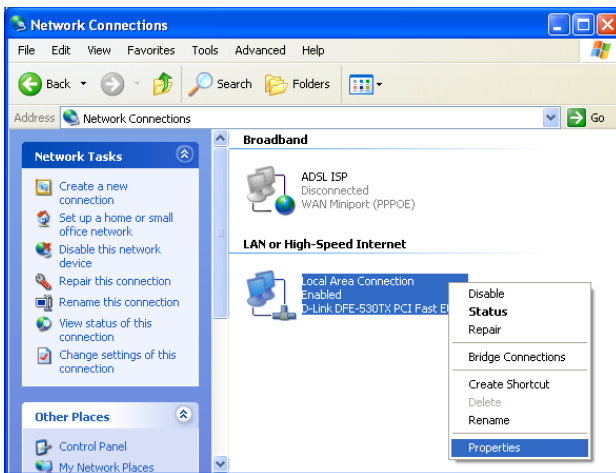


For Windows XP user

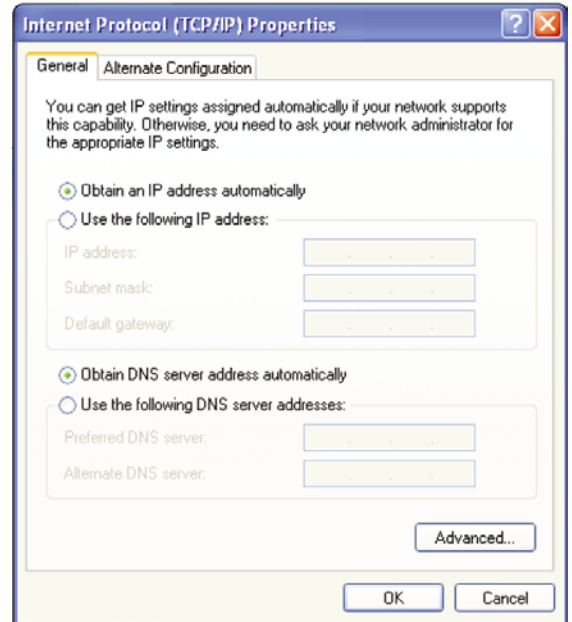
1. Enter “Control Panel” and double click “Network Connections”.



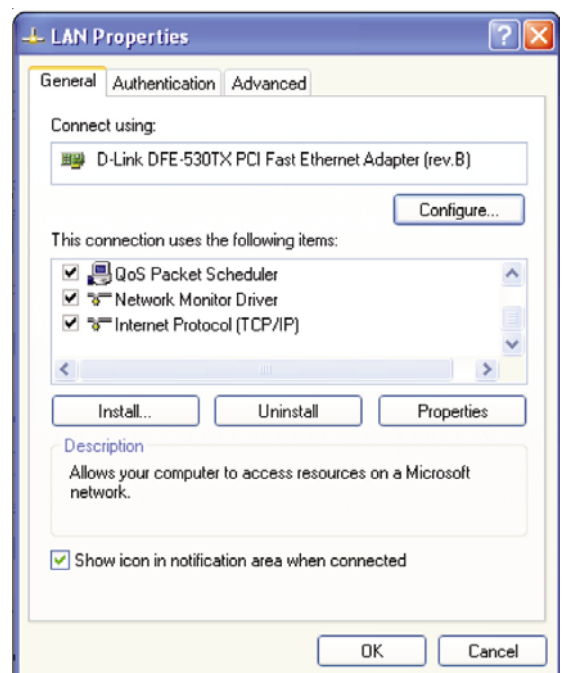
2. Right click LAN icon and choose “Properties”.



4. Select “Obtain an IP address automatically”

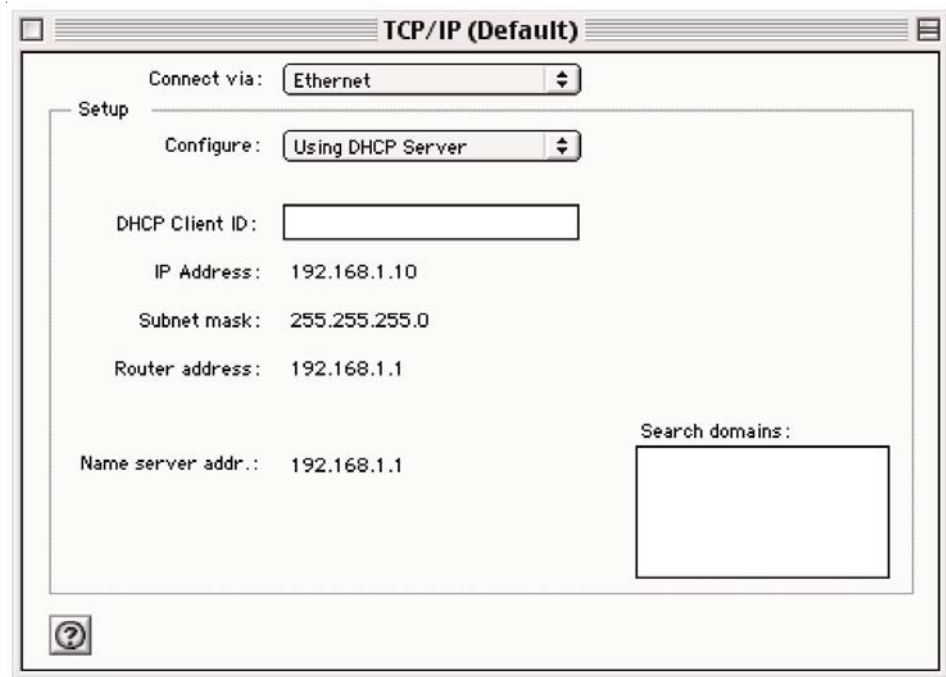


3. Choose “TCP/IP” and press “Properties”.



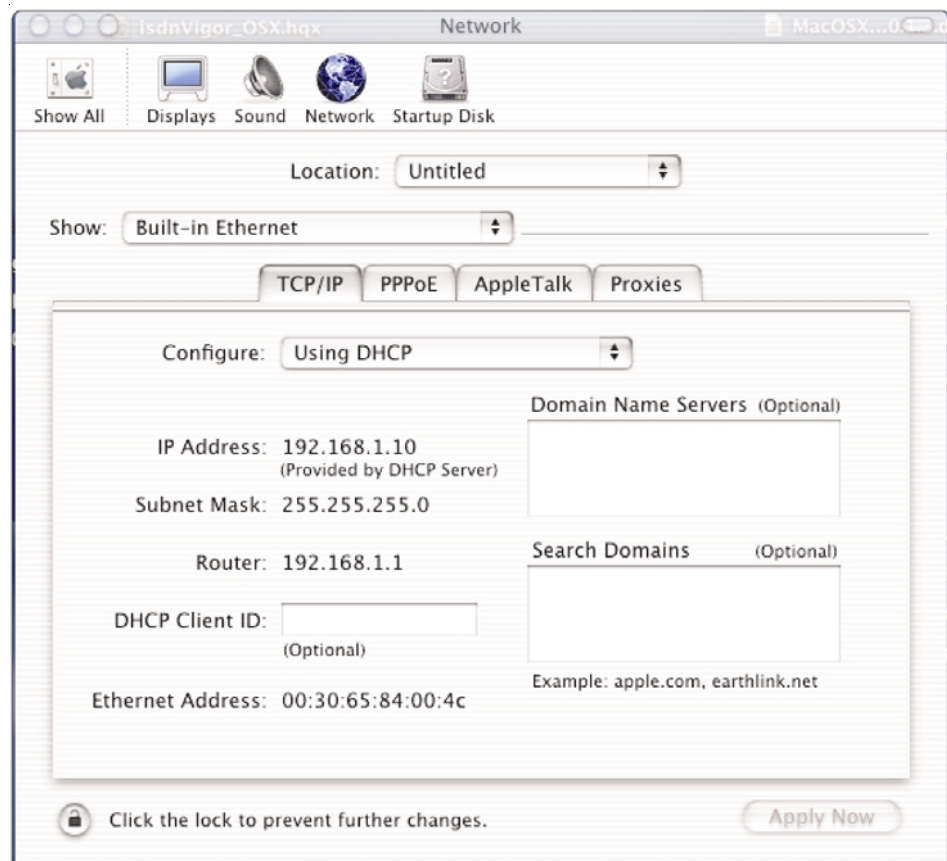
For Mac OS9.x user

Control Panel → TCP/IP



For Mac OSX user

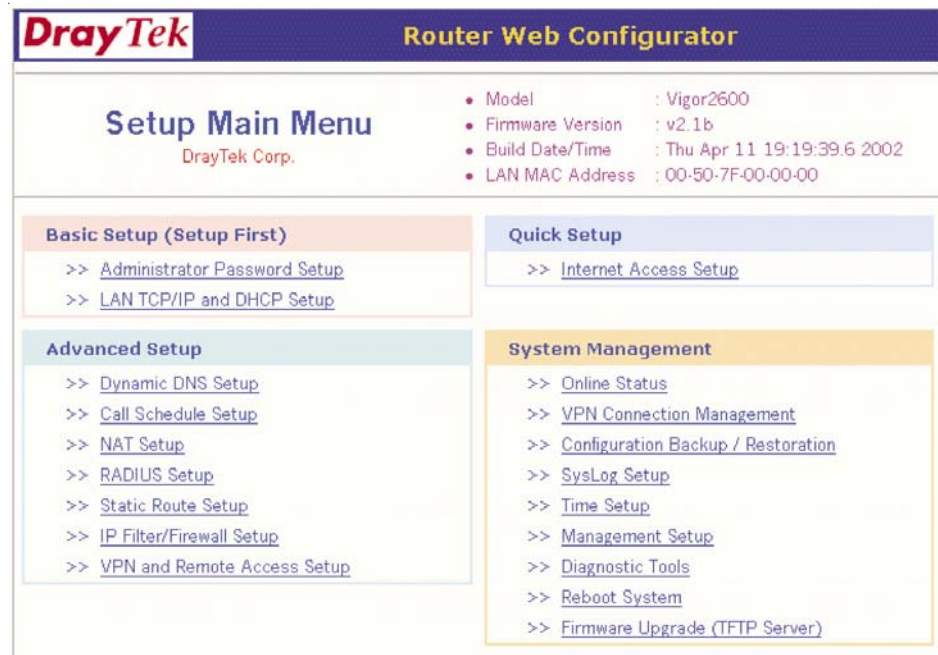
System Preferences → Network



Are DSL/ISP settings Ok?

Connect to router Web Configurator.

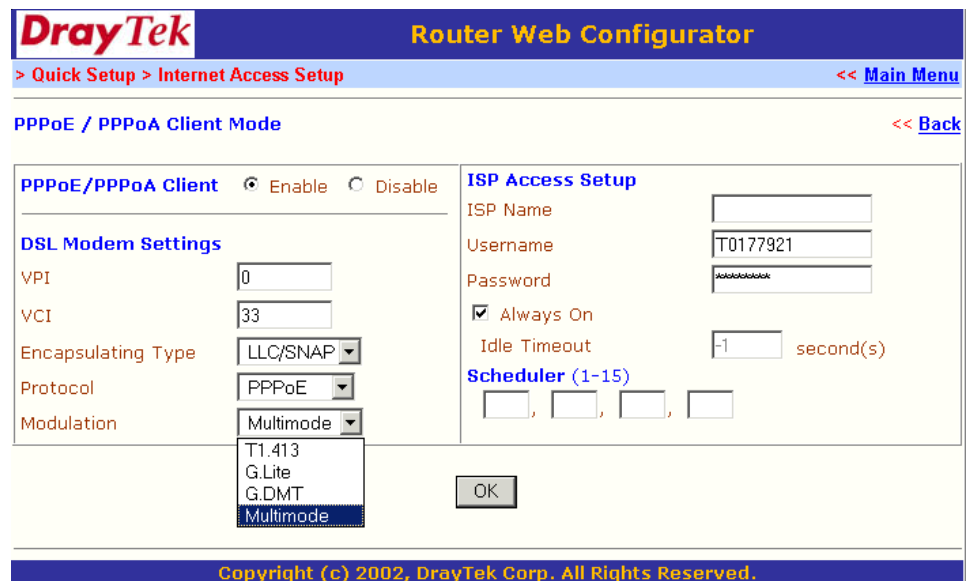
(Example: Vigor2600)



Check if the setting of DSL is ok. (For MPoA users, please refer to the MPoA explanation on page 14)

—> VPI/VCI/Modulation mode:

T1.413, G.Lite, G.DMT, Multimode



—>Encapsulation mode: VCMUX or LLC/SNAP

The screenshot shows the DrayTek Router Web Configurator interface. The breadcrumb trail is > Quick Setup > Internet Access Setup. The page title is Router Web Configurator. The current mode is PPPoE / PPPoA Client Mode. The PPPoE/PPPoA Client section has the 'Enable' radio button selected. Under DSL Modem Settings, VPI is 0, VCI is 33, Encapsulating Type is VCMUX, Protocol is VCMUX, and Modulation is Multimode. The ISP Access Setup section includes fields for ISP Name, Username (T0177921), and Password. The 'Always On' checkbox is checked, and the Idle Timeout is set to -1 second(s). There is a Scheduler section with four empty input boxes. An OK button is at the bottom. The footer contains the copyright notice: Copyright (c) 2002, DrayTek Corp. All Rights Reserved.

For PPPoE/PPPoA user, please check if user name/ password provided by ISP are correct or not.

This screenshot is identical to the one above, but the Encapsulating Type is set to LLC/SNAP and the Protocol is set to PPPoE. All other settings, including VPI (0), VCI (33), Username (T0177921), and the 'Always On' checkbox, remain the same. The footer also contains the copyright notice: Copyright (c) 2002, DrayTek Corp. All Rights Reserved.

For MPoA (RFC1483/2684) mode users, please check if the WAN IP/ Gateway/ Namemask is set or ISP requires you to use DHCP client to get WAN IP.

DrayTek Router Web Configurator

> Quick Setup > Internet Access Setup << Main Menu

MPoA (RFC1483/2684) Mode << Back

MPoA (RFC1483/2684) Enable Disable

Encapsulation: 1483 Bridged IP LLC

DSL Modem Settings

VPI: 0

VCI: 33

Modulation: Multimode

WAN IP Network Settings

Obtain an IP address automatically

Router Name: *

Domain Name: *

* : Required for some ISPs

Specify an IP address

IP Address: 0.0.0.0

Subnet Mask: 255.255.255.0

Gateway IP Address:

Copyright (c) 2002, DrayTek Corp. All Rights Reserved.

Check DSL Status

You can know the DSL status via status monitor.

(Example: Vigor2600)

DrayTek Router Web Configurator

> System Management > Online Status << Main Menu

System Status System Uptime: 0:1:45

LAN Status

IP Address	TX Packets	RX Packets
192.168.1.1	380	295

WAN Status GW IP Addr 61.224.112.254 >> Drop PPPoE/PPPoA

Mode	IP Address	TX Packets	TX Rate	RX Packets	RX Rate	Up Time
PPPoE	61.224.112.148	8	38	10	22	0:00:01

ADSL Information (ADSL Firmware Version : 40e2be29)

ATM Statistics

TX Blocks	RX Blocks	Corrected Blocks	Uncorrected Blocks
231288	231081	58581	0

ADSL Status

Mode	State	Up Speed	Down Speed	SNR Margin	Loop Att.
G.DMT	SHOWTIME	64000	512000	11.0	25.5

Report to people who concerned if still can not work

If the router setting is OK and your PC on the LAN can also talk to router successfully, there may be wrong settings on DSL (eg. VPI, VCI, modulation etc...) when there is still no ADSL Internet connection. Please contact local ISP representatives to help you for configuration. If the router does not work correctly, please contact your dealer for help. For any further questions, please write email to support@draytek.com.tw.