



Vigor3100 Series G.SHDSL Security Router



Quick Start Guide V1.0

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Safety Instructions and Approval

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.
- Do not stack the routers.
- 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.
- Do not deploy the cable for LAN connection outdoor to prevent electronic shock hazards.
- 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.

Be a Registered Owner

Web registration is preferred. You can register your Vigor router via <http://www.draytek.com>. 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 G.SHDSL & 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>

European Community Declarations

Manufacturer: DrayTek Corp.
Address: No. 26, Fu Shing Road, HuKou County, HsinChu Industrial Park, Hsin-Chu, Taiwan 303
Product: Vigor3100 Series G.SHDSL Routers

DrayTek Corp. declares that Vigor3100 series of routers are in compliance with the following essential requirements and other relevant provisions of R&TTE Directive 1999/5/EEC.

The product conforms to the requirements of Electro-Magnetic Compatibility (EMC) Directive 89/336/EEC by complying with the requirements set forth in EN55022/Class B and EN55024/Class B.

The product conforms to the requirements of Low Voltage (LVD) Directive 73/23/EEC by complying with the requirements set forth in EN60950.

The **Vigor3100G** is designed for the WLAN 2.4GHz network throughput EC region, Switzerland, and the restrictions of France.

Regulatory Information

Federal Communication Commission Interference Statement

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 provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed 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 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, and
- (2) This device may accept any interference received, including interference that may cause undesired operation.

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1. Introduction

Targeting requirement for residential, SOHO (Small Office and Home Office) and business users, the Vigor3100 series are G.SHDSL enabled integrated access device. G.SHDSL is going to be a prevailing standard for business and residential SDSL (Symmetrical DSL) in the rapidly growing worldwide marketplace. It offers data at 192Kbps to 2.3Mbps over a single pair. The Vigor3100 series provide exceptional bandwidth* for Internet access. (* The available bandwidth also depends on the Internet Service Provider)

Embedded with sophistic VPN firewall security features, the Vigor3100 series provide 32 dedicated virtual private data networks tunneling through public Internet. Powered by hardware-based DES/3DES engine, all the information transmitted is well encrypted. Hence Vigor3100 series can against any snooping without performance degraded when VPN is enabled.

The Vigor3100 G models are embedded 802.11g compliant wireless module which provides wireless LAN access with line rate as much as 108Mbps with Super G™. The Vigor3100 G models feature WPA2 (802.11i), wireless LAN isolation, and WDS (Wireless Distribution System).

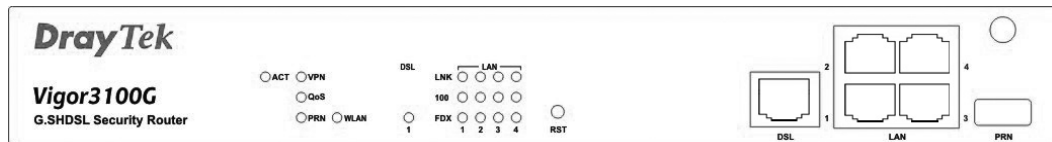


Characteristics

- Easy Internet-sharing of your broadband connection
- Robust firewall to help protect your network from external attacks
- Comprehensive VPN facilities provide deployment of linked branch offices and teleworkers

1.1 Front Panel

1.1.1 Vigor3100G



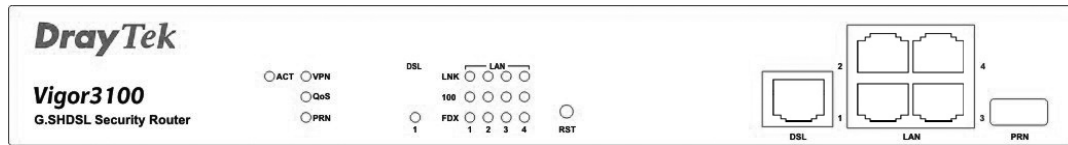
LED Explanation

LED		Status	Explanation
ACT (Activity)		Blinking	The router is powered on and running properly.
VPN		On	The VPN tunnel is launched.
QoS		On	The QoS function is active.
Printer		On	The USB interface printer is ready.
WLAN		On	The wireless LAN function is enabled.
		Blinking	Ethernet packets are transmitting over wireless LAN.
DSL		On	The G.SHDSL line is connected.
LAN (1, 2, 3, 4)	LNK	Blinking	It means that Ethernet packets are transmitting.
	100	On	It means that a normal 100Mbps connection is through its corresponding port.
		Off	It means that a normal 10Mbps connection is through its corresponding port.
	FDX	On	It means a full duplex connection.
		Off	It means a half duplex connection.
		Blinking	It means that a packet collision happens.

Connectors

Interface	Description
RST (Factory Reset)	Restore the default settings. Usage: Turn on the router (ACT LED is blinking). Press the hole and keep for more than 5 seconds. When you see the ACT LED begins to blink rapidly than usual, release the button. Then the router will restart with the factory default configuration.
DSL	Connect the G.SHDSL line to access the Internet.
LAN (1,2,3,4)	Connect to the local networked devices.
PRN (Printer)	Connect to the USB printer.

1.1.2 Vigor3100



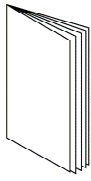
LED Explanation

LED		Status	Explanation
ACT (Activity)		Blinking	The router is powered on and running properly.
VPN		On	The VPN tunnel is launched.
QoS		On	The QoS function is active.
Printer		On	The USB interface printer is ready.
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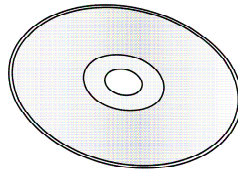
Connectors

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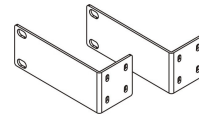
1.2 Package Content



1 Quick Start Guide



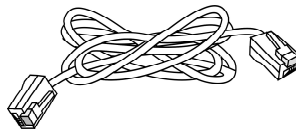
2 CD



3 Rack mount kit
(brackets)



4 Antenna for Vigor3100G



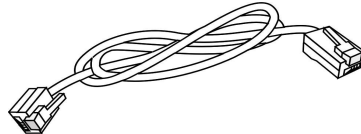
5 RJ-45 Cable (Ethernet)

6 The type of the cable depends on the country that the router will be installed:



RJ-11 to RJ-45 Cable (Annex B)

Or



RJ-45 to RJ-45

7 The type of the power cord depends on the country that the router will be installed:



UK-type power cord



EU-type power cord



USA/Taiwan-type power cord



AU/NZ-type power cord

2. Install Your Vigor3100 Series Router

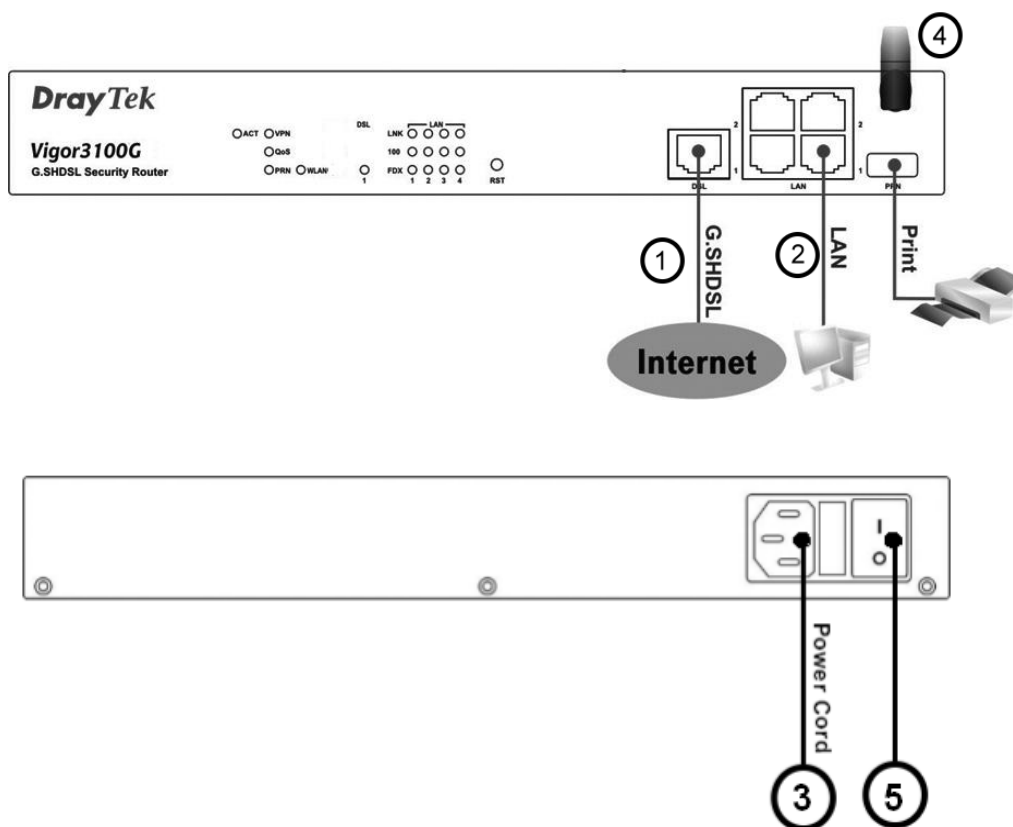
This section will guide you to install the router through hardware connection and configure the router's settings through web browser.

2.1 Hardware Installation

Before starting to configure the router, you have to connect your devices correctly.

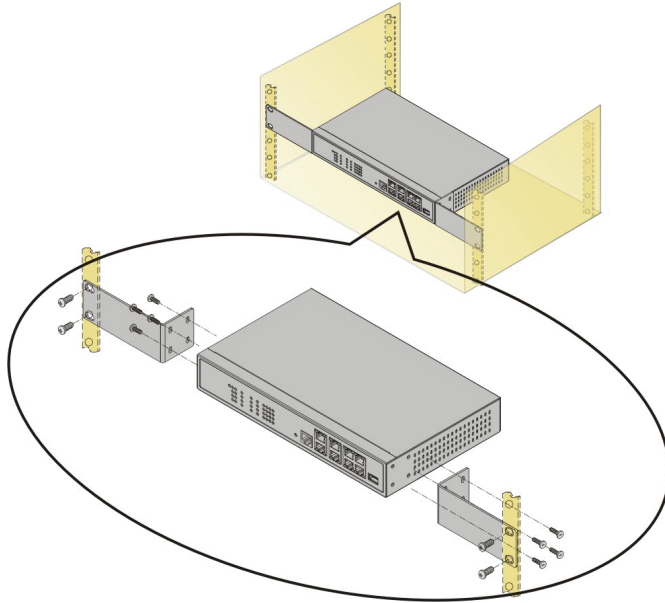
1. Connect the DSL port of the router to the wall outlet with a RJ-11 to RJ-45 (or RJ-45 to RJ-45) cable.
2. Connect one port of 4-port switch to your computer with a RJ-45 cable.
3. Connect one end of the power cord to the power port of the router. Connect the other end to the wall outlet of electricity.
4. Connect detachable antennas to the router for Vigor3100G.
5. Power on the router.
6. Check the **ACT** and **WAN**, **LAN** LEDs to assure network connections.

(For the detailed information of LED status, please refer to section 1.1.)



2.1.1 Rack Mount Instruction

Use brackets to set the Vigor router on the rack as shown below.



2.2 Web Configuration

The **Quick Start Wizard** is designed for you to easily set up your router for Internet access. You can directly access the **Quick Start Wizard** via Web Configurator.

1. Make sure your PC connects to the router correctly.



Notice: You may either simply set up your computer to get IP dynamically from the router or set up the IP address of the computer to be the same subnet as **the default IP address of Vigor router 192.168.1.1**. For the detailed information, please refer to the later section - Trouble Shooting of the guide.

2. Open a web browser on your PC and type **http://192.168.1.1**. A pop-up window will open to ask for username and password. Do not type any word on the window and click OK for next screen.



3. Now, the **Main Screen** will pop up. Click **Quick Start Wizard**.

Vigor3100 Series
G. SHDSL Router

DrayTek
www.draytek.com

Quick Start Wizard
Online Status

Internet Access
LAN
NAT
Firewall
Applications
VPN and Remote Access
Wireless LAN
System Maintenance
Diagnostics

All Rights Reserved.

System Status

Model Name : Vigor3100 series
Firmware Version : v2.6.0
Build Date/Time : Mon Aug 29 10:41:6.24 2005

LAN		WAN	
MAC Address	: 00-50-7F-00-00-00	MAC Address	: 00-50-7F-00-00-01
1st IP Address	: 192.168.1.1	Connection	: ---
1st Subnet Mask	: 255.255.255.0	IP Address	: ---
DHCP Server	: Yes	Default Gateway	: ---
		DNS	: 194.109.6.66

Wireless LAN

MAC Address : 00-08-22-00-03-3a
Frequency Domain : FCC
Firmware Version : v1.46.01.24.5.2

4. Enter the login password on the field of New Password and retype it on the field of Confirm Password. Then click **Next** to continue.

1. Enter login password

Please enter an alpha-numeric string as your **Password** (Max 23 characters).

New Password

Confirm Password

< Back Next > Finish Cancel

5. On the next page as shown below, please select the appropriate Internet access type according to the information from your ISP. Or clicking “**Auto detect**” button to find out the related DSL parameters automatically.

2. Connect to Internet

VPI Auto detect

VCI

Protocol / Encapsulation

Fixed IP

IP Address

Subnet Mask

Default Gateway

Primary DNS

Second DNS

< Back Next > Finish Cancel

6. If you select PPPoE/PPPoA as the protocol, please manually enter the Username/Password provided by your ISP. Check the **Always On** means Internet access is always on regardless of Internet usage. Then click **Next**.

3. Set PPPoE / PPPoA

ISP Name	<input type="text"/>
User Name	<input type="text"/>
Password	<input type="password"/>
Confirm Password	<input type="password"/>
<input type="checkbox"/> Always On	
Idle Timeout	<input type="text" value="180"/> Seconds

< Back Next > Finish Cancel

7. Review the summary of settings. If everything is OK, click **Finish** to exit the wizard.

4. Please confirm your settings:

VPI	: 0
VCI	: 33
Protocol / Encapsulation	: PPPoE / LLC
Fixed IP	: No
Primary DNS	:
Secondary DNS	:
Always On	: Yes

< Back Next > Finish Cancel

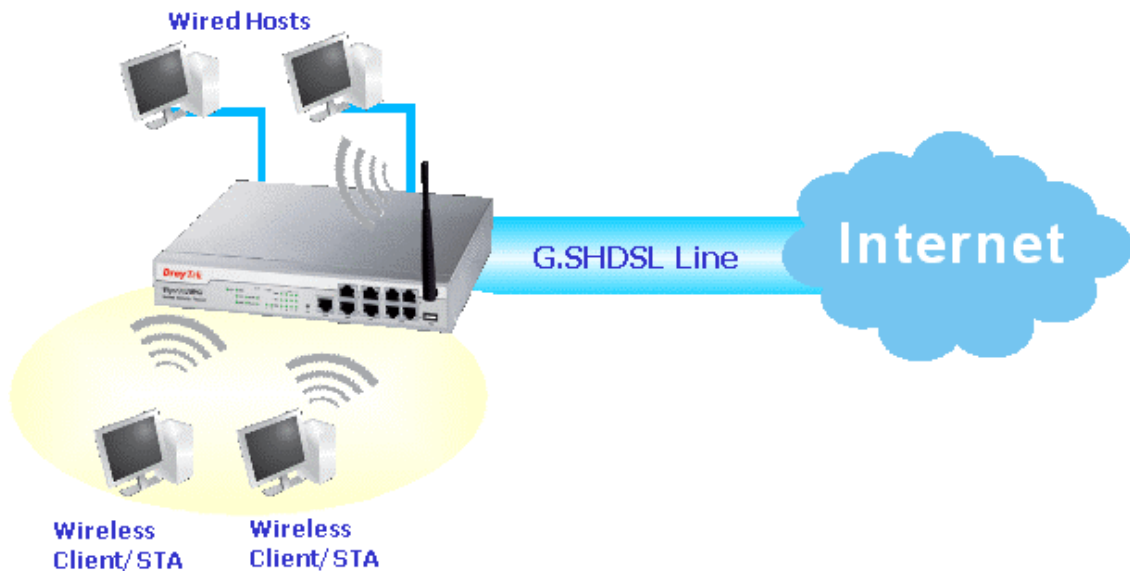
3. Wireless LAN Settings for Vigor3100G

For operating Vigor3100G well, it is necessary for you to set the wireless LAN settings for using wireless function. Please read the following section carefully for configuring the settings for this router.

(The default value of Frequency Domain was set by factory depends on the reselling region.)

3.1 Basic Wireless LAN Concept

In an Infrastructure Mode of wireless network, Vigor wireless router plays a role as an Access Point (AP) connecting to lots of wireless clients or Stations (STA). All the STAs will share the same Internet connection with other wired hosts via Vigor wireless router.



3.2 Boost Up Your Wireless Speed

The Vigor wireless routers are equipped with a wireless LAN interface compliant with the standard IEEE 802.11g protocol. To boost its performance further, the Vigor Router is also loaded with advanced wireless technology Super G™ to lift up data rate up to 108 Mbps*. Hence, you can finally smoothly enjoy stream music and video.

- * The actual data throughput will vary according to the network conditions and environmental factors, including volume of network traffic, network overhead and building materials. Only Super G STAs can achieve performance boost together with Vigor Super G™ router.

3.3 General Settings

Click **Wireless LAN >>General Settings** to configure the Service Set Identifier (SSID) and wireless channel.

General Setting (IEEE 802.11)

☒ Enable Wireless LAN

Mode : Mixed(11b+11g) ▼

Scheduler (1-15) , , ,

SSID : default

Channel : Channel 6, 2437MHz ▼

☐ Hide SSID

☐ Long Preamble

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.
Long Preamble:enable this only when meeting connectivity problems for some old 802.11b devices; otherwise, it reduces the performance.

1. Check the box **Enable Wireless LAN** to enable wireless function.
2. Select an appropriate wireless mode.

Mixed (11b+11g+Super G)	The router can connect to IEEE802.11b, IEEE802.11g and Super G stations simultaneously. If you don't know which one is suitable for your router, please choose this mode.
Mixed (11b+11g)	The router can connect to IEEE802.11b and IEEE802.11g stations simultaneously.
Super G only	The router can connect to Super G stations.
11g-only	The router can connect to IEEE802.11g stations.
11b-only	The router can connect to IEEE802.11b stations.
3. Type in the name of the SSID and Channel. The default name for SSID is "default". We suggest you change it to a particular name.

SSID (service set identifier)	It is used to name the wireless LAN for this router, and it must have the same content in client PC/notebook wireless card(s). SSID can be any text numbers or various special characters.
Channel	It is a wireless channel for the router. The default channel is 6. You can change it to an appropriate one if the selected channel is under serious interference.

4. Trouble Shooting

This section will guide you to solve abnormal situations if you cannot access into the Internet after installing the router and finishing the web configuration. Please follow below sections to check your basic installation stage by stage.

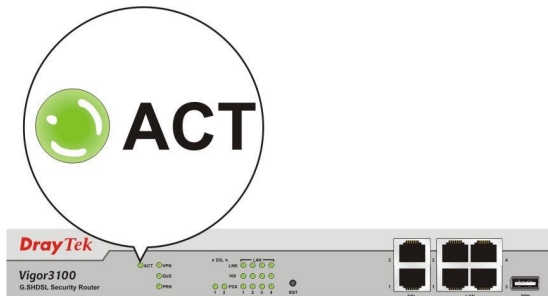
- Checking if the hardware status is OK or not.
- Checking if the network connection settings on your computer are OK or not.
- Pinging the router from your computer.
- Checking if the ISP settings are OK or not.
- Backing to factory default setting if necessary.

If all above stages are done and the router still cannot run normally, it is the time for you to contact your dealer for advanced help.

4.1 Checking If the Hardware Status Is OK or Not

Follow the steps below to verify the hardware status.

1. Check the power line and WLAN/LAN cable connections.
Refer to “**2.1 Hardware Installation**” for details.
2. Turn on the router. Make sure the **ACT LED** blink once per second and the correspondent **LAN LED** is bright.



3. If not, it means that there is something wrong with the hardware status. Simply back to “**2.1 Hardware Installation**” to execute the hardware installation again. And then, try again.

4.2 Checking If the Network Connection Settings on Your Computer Is OK or Not

Sometimes the link failure occurs due to the wrong network connection settings. After trying the above section, if the link is still failed, please do the steps listed below to make sure the network connection settings is OK.

For Windows



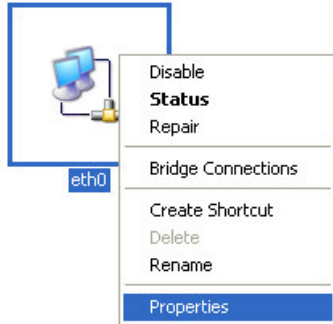
The example is based on Windows XP. As to the examples for other operation systems, please refer to the similar steps or find support notes in www.draytek.com.

1. Go to **Control Panel** and then double-click on **Network Connections**.

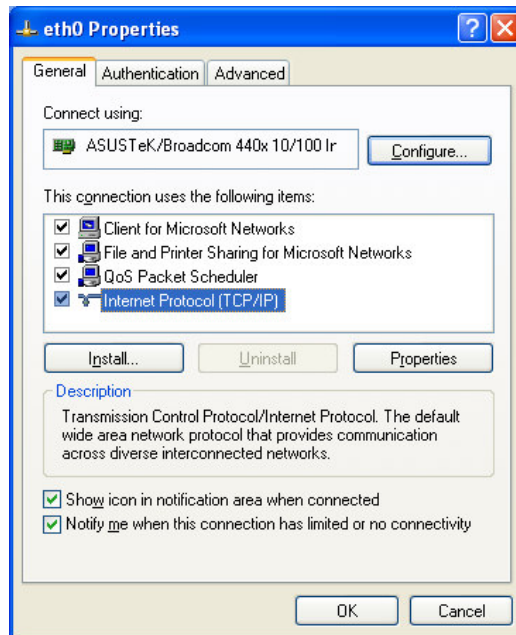


Network Connections

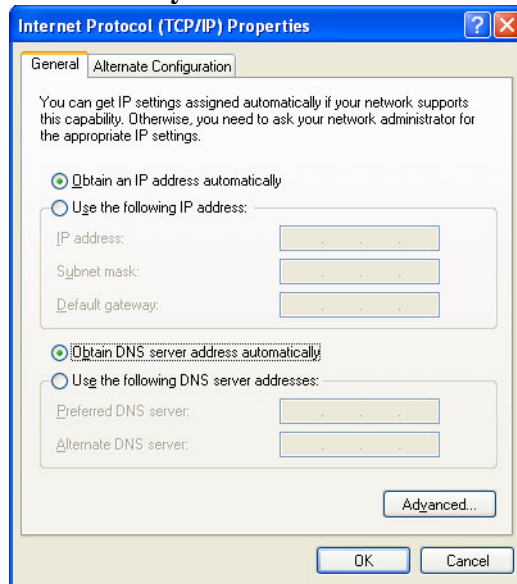
2. Right-click on **Local Area Connection** and click on **Properties**.



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

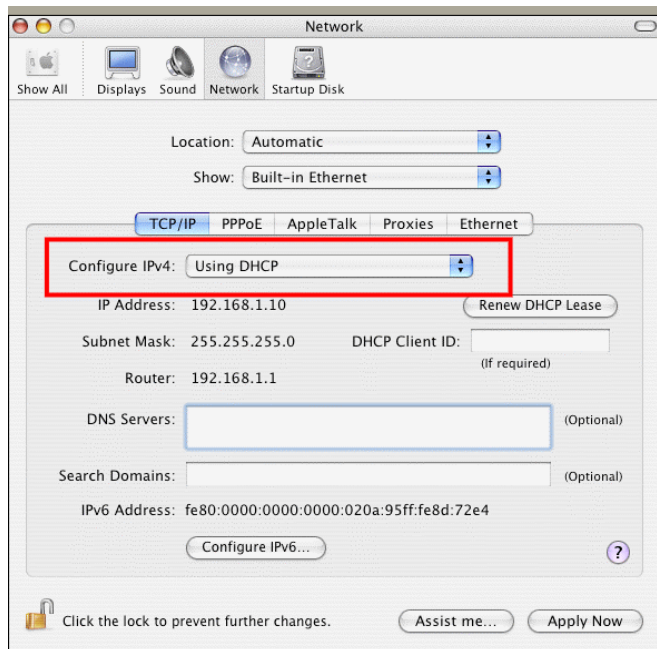


4. Select **Obtain an IP address automatically** and **Obtain DNS server address automatically**.



For MacOs

1. Double click on the current used MacOs on the desktop.
2. Open the **Application** folder and get into **Network**.
3. On the **Network** screen, select **Using DHCP** from the drop down list of Configure IPv4.



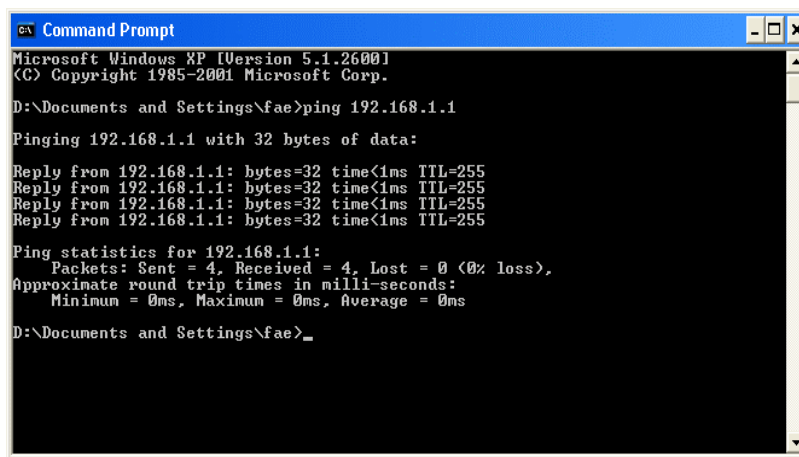
4.3 Pinging the Router from Your Computer

The default gateway IP address of the router is 192.168.1.1. For some reason, you might need to use “ping” command to check the link status of the router. **The most important thing is that the computer will receive a reply from 192.168.1.1.** If not, please check the IP address of your computer. We suggest you setting the network connection as **get IP automatically**. (Please refer to the section 4.2)

Please follow the steps below to ping the router correctly.

For Windows

1. Open the **Command Prompt** window (from **Start menu> Run**).
2. Type **command** (for Windows 95/98/ME) or **cmd** (for Windows NT/ 2000/XP). The DOS command dialog will appear.



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

D:\Documents and Settings\fae>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

D:\Documents and Settings\fae>_
```

3. Type **ping 192.168.1.1** and press [Enter]. If the link is OK, the line of “**Reply from 192.168.1.1:bytes=32 time<1ms TTL=25**” will appear.
4. If the line does not appear, please check the IP address setting of your computer.

For MacOS (Terminal)

1. Double click on the current used MacOS on the desktop.
2. Open the **Application** folder and get into **Utilities**.
3. Double click **Terminal**. The Terminal window will appear.
4. Type **ping 192.168.1.1** and press [Enter]. If the link is OK, the line of “**64 bytes from 192.168.1.1: icmp_seq=0 ttl=255 time=xxxx ms**” will appear.

```

Terminal — bash — 80x24
Last login: Sat Jan  3 02:24:18 on ttty1
Welcome to Darwin!
Vigor10:~ 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=0.755 ms
64 bytes from 192.168.1.1: icmp_seq=1 ttl=255 time=0.697 ms
64 bytes from 192.168.1.1: icmp_seq=2 ttl=255 time=0.716 ms
64 bytes from 192.168.1.1: icmp_seq=3 ttl=255 time=0.731 ms
64 bytes from 192.168.1.1: icmp_seq=4 ttl=255 time=0.72 ms
^C
--- 192.168.1.1 ping statistics ---
5 packets transmitted, 5 packets received, 0% packet loss
round-trip min/avg/max = 0.697/0.723/0.755 ms
Vigor10:~ draytek$

```

4.4 Checking If the ISP Settings are OK or Not

Click **Internet Access Setup** group and then check whether the ISP settings are set correctly.

For PPPoE/PPPoA Users

1. Check if the **Enable** option is selected.
2. Check if all parameters of **DSL Modem Settings** are entered with correct values that you got from your ISP.
3. Check if **Username** and **Password** are entered with correct values that you **got from** your **ISP**.

Internet Access >> PPPoE / PPPoA

PPPoE / PPPoA Client Mode	
PPPoE/PPPoA Client <input checked="" type="radio"/> Enable <input type="radio"/> Disable	
DSL Modem Settings Multi-PVC channel: Channel 1 VPI: 0 VCI: 33 Encapsulating Type: LLC/SNAP Protocol: PPPoE Modulation: Multimode	
PPPoE Pass-through <input type="checkbox"/> For Wired LAN <input type="checkbox"/> For Wireless LAN	
ISDN Dial Backup Setup Dial Backup Mode: None	
ISP Access Setup ISP Name: hinet Username: 86623721@hinnet.net Password: ***** PPP Authentication: PAP or CHAP <input type="checkbox"/> Always On Idle Timeout: 180 second(s)	
IP Address From ISP <input type="radio"/> Fixed IP <input checked="" type="radio"/> Yes <input type="radio"/> No (Dynamic IP) Fixed IP Address:	
* : Required for some ISPs <input checked="" type="radio"/> Default MAC Address <input type="radio"/> Specify a MAC Address MAC Address: 00 50 7F 27 28 A8	
Scheduler(1-15) , , , ,	

For MPoA (RFC1483/2684) Users

1. Check if the **Enable** option is selected.
2. Check if all parameters of **DSL Modem Settings** are entered with correct values that you got from your **ISP**.
3. Check if **IP Address**, **Subnet Mask** and **Gateway** are set correctly, or use DHCP server to obtain IP automatically by clicking **Obtain an IP address automatically**.

Internet Access >> MPoA (RFC1483/2684)

MPoA (RFC1483/2684) Mode MPoA (RFC1483/2684) <input type="radio"/> Enable <input checked="" type="radio"/> Disable		WAN IP Network Settings <input type="radio"/> Obtain an IP address automatically Router Name <input type="text"/> Domain Name <input type="text"/>	
DSL Modem Settings Multi-PVC channel <input type="text"/> Encapsulation <input type="text"/> VPI <input type="text"/> VCI <input type="text"/> Modulation <input type="text"/>		<input checked="" type="radio"/> Specify an IP address <input type="button" value="WAN IP Alias"/> IP Address <input type="text"/> Subnet Mask <input type="text"/> Gateway IP Address <input type="text"/>	
ISDN Dial Backup Setup Dial Backup Mode <input type="text"/>		* : Required for some ISPs <input checked="" type="radio"/> Default MAC Address <input type="radio"/> Specify a MAC Address MAC Address: <input type="text"/>	
RIP Protocol <input type="checkbox"/> Enable RIP		DNS Server IP Address Primary IP Address <input type="text"/> Secondary IP Address <input type="text"/>	

4.5 Backing to Factory Default Setting If Necessary

Sometimes, a wrong connection can be improved by returning to the default settings. Try to reset the router by software or hardware.



Warning: After pressing **factory default setting**, you will lose all settings you did before. Make sure you have recorded all useful settings before you pressing. The password of factory default is null.

Software Reset

You can reset router to factory default via Web page.

Go to **System Maintenance >> Reboot System** on the web page. The following screen will appear. Choose **Using factory default configuration** and click **OK**. After few seconds, the router will return all the settings to the factory settings.

[System Maintenance >> Reboot System](#)

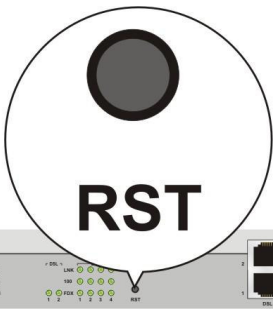
Reboot System

Do You want to reboot your router ?

☐ Using current configuration
☒ Using factory default configuration

Hardware Reset

While the router is running (ACT LED blinking), press the **RST** button and hold for more than 5 seconds. When you see the ACT LED blinks rapidly, please release the button. Then, the router will restart with the default configuration.



After restore the factory default setting, you can configure the settings for the router again to fit your personal request.

4.6 Contacting Your Dealer

If the router still cannot work correctly after trying many efforts, please contact your dealer for further help right away. For any questions, please feel free to send e-mail to support@draytek.com.

5. Specifications

For Vigor3100 Series

G.SHDSL

- Based on ITU-T G.991.2
- Symmetrical WAN speeds up to 2.3Mbps over two wires
- Support back-to-back connection (one side can be configured in CO side)

G.SHDSL back to back

- MPoA only
- Routing mode

Firewall Facilities

- IM/P2P blocking
- Multi-NAT, DMZ host, port-redirect/open port
- Rule-based packet filtering
- Stateful packet inspection
- DoS/DDoS protection
- IP address anti-spoofing
- E-mail alert and logging via syslog
- VPN pass through
- MAC Address Filtering*

QoS

- Class-based bandwidth guarantee by user-defined traffic categories
- Rule-based classification (IP/Port/DiffServ CodePoint)
- 4-level priority for each direction (Inbound/ Outbound)
- Bandwidth borrowed
- Automatic WAN speed detection

Network Features

- DHCP client/relay/server
- Dynamic DNS
- SNTP client
- Call scheduling
- RADIUS client
- DNS cache/proxy
- UPnP
- Routing protocol
 - Static routing
 - RIP V2

VPN

- Up to 32 VPN tunnels
- Supported protocol: PPTP, IPSec, L2TP, L2TP over IPSec
- DHCP over IPSec
- Encryption: AES, MPPE and hardware-based DES/3DES
- Authentication: MD5, SHA-1
- Key management: IKE
- IKE authentication: pre-shared key and digital signature (X.509)
- LAN-to-LAN, Teleworker-to-LAN

Content Filtering

- URL blocking
- Java Applet, Cookies, Active X blocking
- Key word blocking
- Specific file type blocking: compressed, executable, multimedia
- Time schedule control
- Web content filter

Router Management

- Web-based user interface (HTTP/HTTPS)
- Quick Start Wizard
- CLI (Command Line Interface, Telnet/SSH*)
- Administration access control
- Configuration backup/restore
- Built-in diagnostic function
- Firmware upgrade via TFTP/FTP
- Syslog
- SNMP management MIB-II

Power Consumption

- 15Watt Maximum

* It means future release

Additional Features for Vigor3100 G only

Wireless Access Point

- IEEE802.11b/g compliant
 - 64/128-bit WEP
 - WPA/WPA2 (IEEE802.11i)
 - 802.1x authentication with RADIUS client
- VPN over WLAN
- Wireless client list
- Hidden SSID
- MAC address access control
- Access point discovery
- Wireless VLAN*
- Wireless LAN isolation
- Wireless client isolation
- Wireless rate-control*
- WDS (Wireless Distribution System)

Super G™

- Up to 108 Mbps data rate **
- Utilizing adaptive radio to automatically identify clear channels
- Real-time hardware data compression

* *Actual data throughput will vary according to the network conditions and environmental factors, including volume of network traffic, network overhead and building materials.

Model comparison

	G.SHDSL Router	Wireless AP
Vigor3100	✓	-
Vigor3100G	✓	✓