

DrayTek

Vigor2860 Series

VDSL2 Security Firewall



Quick Start Guide

V3.0

Vigor2860 Series VDSL2 Security Firewall Quick Start Guide

Version: 3.0

Firmware Version: V3.7.8

(For future update, please visit DrayTek web site)

Date: January 07, 2015

Copyright Information

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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 two (2) 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>.

Firmware & Tools Updates

Due to the continuous evolution of DrayTek 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 Township, Hsinchu Industrial Park, Hsinchu County,
Taiwan 303
Product: Vigor2860 Series Router

DrayTek Corp. declares that Vigor2860 Series of routers are in compliance with the following essential requirements and other relevant provisions of R&TTE 1999/5/EC, ErP 2009/125/EC and RoHS 2011/65/EU.

The product conforms to the requirements of Electro-Magnetic Compatibility (EMC) Directive 2004/108/EC 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 2006/95/EC by complying with the requirements set forth in EN60950-1.

This product is designed for POT, DSL and 2.4GHz /5GHz WLAN network throughout the EC region.

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.

The antenna/transmitter should be kept at least 20 cm away from human body.

DrayTek Vigor2860 series VDSL2/ADSL2+ routers are compliant with 47 C.F.R. Part 68.



More update, please visit www.draytek.com.

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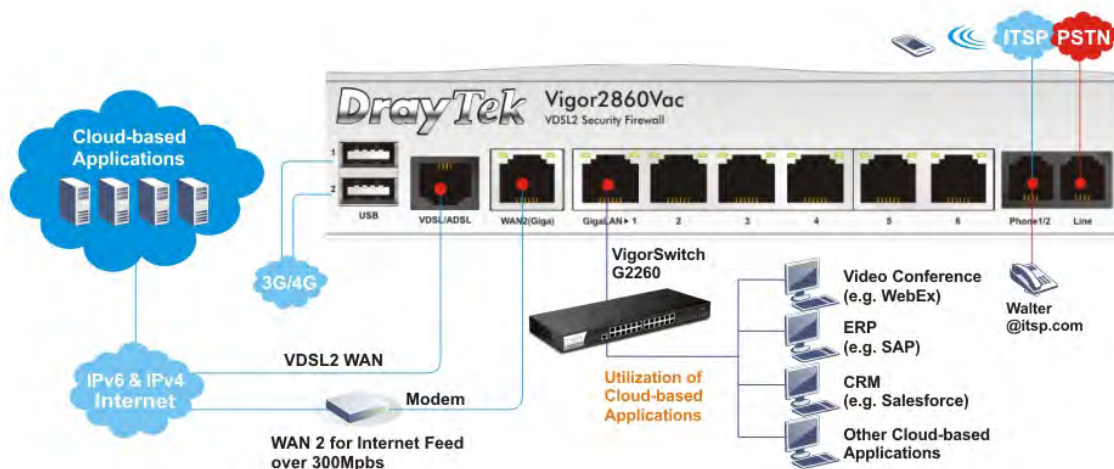
1. Introduction

Vigor2860 series is a VDSL2 router with multi-subnet for secure and efficient workgroup management. It integrates IP layer QoS, NAT session/bandwidth management to help users control works well with large bandwidth.

By adopting hardware-based VPN platform and hardware encryption of AES/DES/3DES, and hardware key hash of SHA-1/MD5, the router increases the performance of VPN greatly and offers several protocols (such as IPSec/PPTP/L2TP) with up to 32 VPN tunnels.

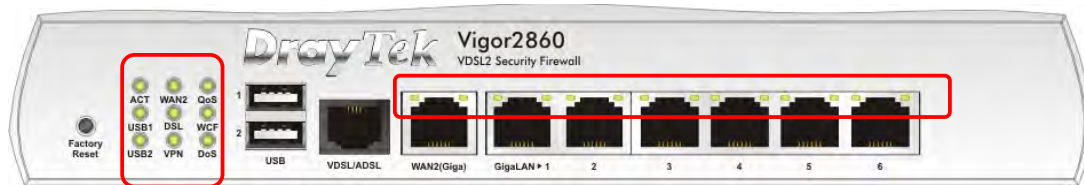
The object-based design used in SPI (Stateful Packet Inspection) firewall allows users to set firewall policy with ease. CSM (Content Security Management) provides users control and management in IM (Instant Messenger) and P2P (Peer to Peer) more efficiency than before. In addition, DoS/DDoS prevention and URL/Web content filter strengthen the security outside and control inside.

Vigor2860 series supports USB interface for connecting USB printer to share printing function, 3G/4G USB modem for network connection, or connectivity for network FTP service.



1.1 Panel Explanation

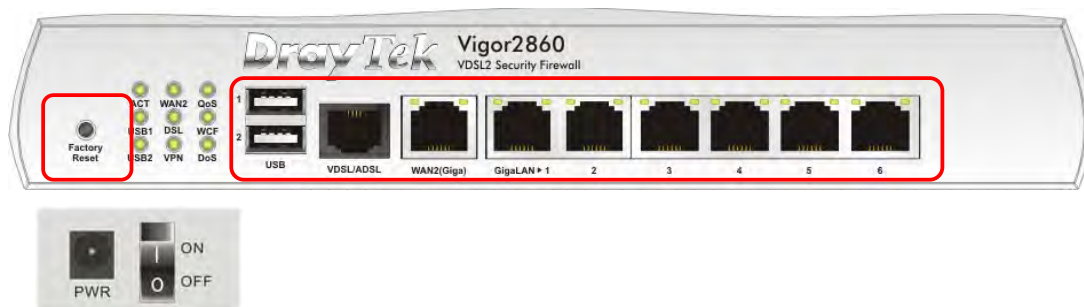
1.1.1 For Vigor2860



LED	Status	Explanation
ACT (Activity)	Blinking	The router is powered on and running normally.
	Off	The router is powered off.
USB1~2	On	USB device is connected and ready for use.
	Blinking	The data is transmitting.
WAN2	On	Internet connection is ready.
	Off	Internet connection is not ready.
	Blinking	The data is transmitting.
DSL	On	The router is ready to access Internet through DSL link.
	Blinking	Slowly: The DSL connection is ready. Quickly: The connection is training.
VPN	On	The VPN tunnel is active.
	Off	VPN services are disabled
	Blinking	Traffic is passing through VPN tunnel.
QoS	On	The QoS function is active.
WCF	On	The Web Content Filter is active. (It is enabled from Firewall >> General Setup).
DoS	On	The DoS/DDoS function is active.
	Blinking	It will blink while detecting an attack.

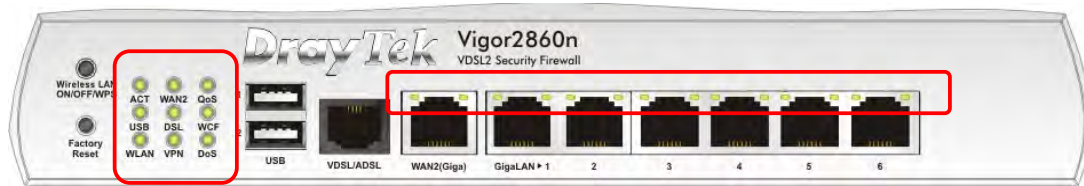
LED on Connector

WAN2 (Giga)	Left LED	On	The port is connected.
		Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right LED	On	The port is connected with 1000Mbps.
		Off	The port is connected with 10/100Mbps
		Blinking	The data is transmitting.
GigaLAN 1~6	Left LED	On	The port is connected.
		Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right LED	On	The port is connected with 1000Mbps.
		Off	The port is connected with 10/100Mbps
		Blinking	The data is transmitting.



Interface	Description
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.
USB	Connector for a USB device (for 3G/4G USB Modem or printer).
VDSL/ADSL	Connector for accessing the Internet.
WAN2	Connector for local network devices or modem for accessing Internet.
GigaLAN 1-6	Connectors for local network devices.
PWR	Connector for a power adapter.
ON/OFF	Power Switch.

1.1.2 For Vigor2860n

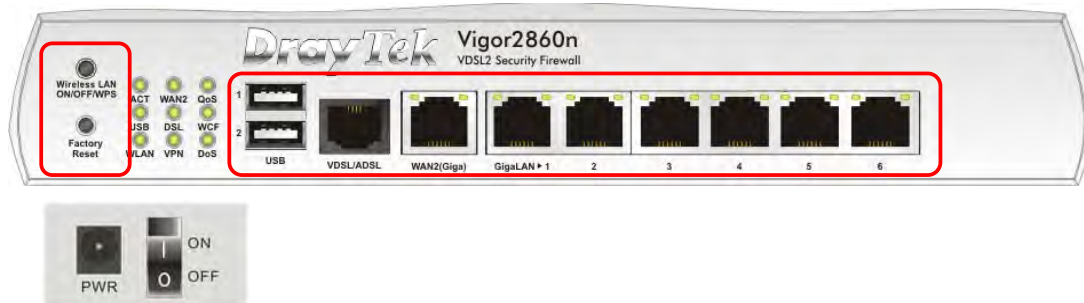


LED	Status	Explanation
ACT (Activity)	Blinking	The router is powered on and running normally.
	Off	The router is powered off.
USB	On	USB device is connected and ready for use.
	Blinking	The data is transmitting.
WLAN	On	Wireless access point is ready.
	Blinking	It will blink slowly while wireless traffic goes through. ACT and WLAN LEDs blink quickly and simultaneously when WPS is working, and will return to normal condition after two minutes. (You need to setup WPS within 2 minutes.)
WAN2	On	Internet connection is ready.
	Off	Internet connection is not ready.
	Blinking	The data is transmitting.
DSL	On	The router is ready to access Internet through DSL link.
	Blinking	Slowly: The DSL connection is ready. Quickly: The connection is training.
VPN	On	The VPN tunnel is active.
	Off	VPN services are disabled
	Blinking	Traffic is passing through VPN tunnel.
QoS	On	The QoS function is active.
WCF	On	The Web Content Filter is active. (It is enabled from Firewall >> General Setup).
DoS	On	The DoS/DDoS function is active.
	Blinking	It will blink while detecting an attack.

LED on Connector

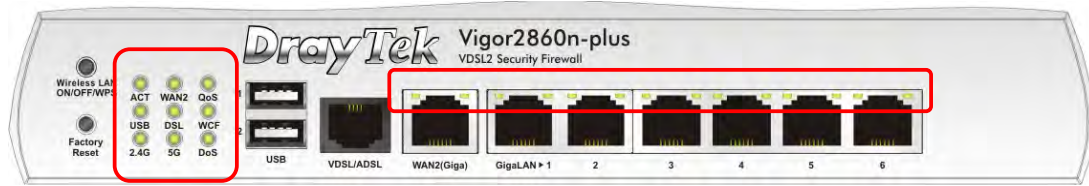
WAN2 (Giga)	Left LED	On	The port is connected.
		Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right	On	The port is connected with 1000Mbps.

GigaLAN 1~6	LED	Off	The port is connected with 10/100Mbps
	Left LED	On	The port is connected.
		Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right LED	On	The port is connected with 1000Mbps.
	LED	Off	The port is connected with 10/100Mbps



Interface	Description
Wireless LAN ON/OFF/WPS	<p>Press the button and release it within 2 seconds. When the wireless function is ready, the green LED will be on.</p> <p>Press the button and release it within 2 seconds to turn off the WLAN function. When the wireless function is not ready, the LED will be off.</p> <p>When WPS function is enabled by web user interface, press this button for more than 2 seconds to wait for client's device making network connection through WPS.</p>
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.
USB	Connector for a USB device (for 3G/4G USB Modem or printer).
VDSL/ADSL	Connector for accessing the Internet.
WAN2 (Giga)	Connector for local network devices or modem for accessing Internet.
GigaLAN 1-6	Connectors for local network devices.
PWR	Connector for a power adapter.
ON/OFF	Power Switch.

1.1.3 For Vigor2860n-plus

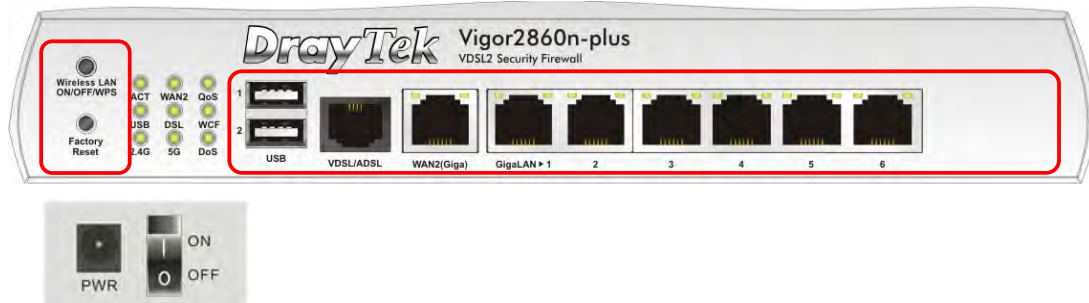


LED	Status	Explanation
ACT (Activity)	Blinking	The router is powered on and running normally.
	Off	The router is powered off.
USB	On	USB device is connected and ready for use.
	Blinking	The data is transmitting.
2.4G/5G	On	Wireless access point with bandwidth of 2.4GHz/5GHz is ready.
	Blinking	It will blink slowly while wireless traffic goes through. ACT and WLAN LEDs blink quickly and simultaneously when WPS is working, and will return to normal condition after two minutes. (You need to setup WPS within 2 minutes.)
WAN2	On	Internet connection is ready.
	Off	Internet connection is not ready.
	Blinking	The data is transmitting.
DSL	On	The router is ready to access Internet through DSL link.
	Blinking	Slowly: The DSL connection is ready. Quickly: The connection is training.
QoS	On	The QoS function is active.
WCF	On	The Web Content Filter is active. (It is enabled from Firewall >> General Setup).
DoS	On	The DoS/DDoS function is active.
	Blinking	It will blink while detecting an attack.

LED on Connector

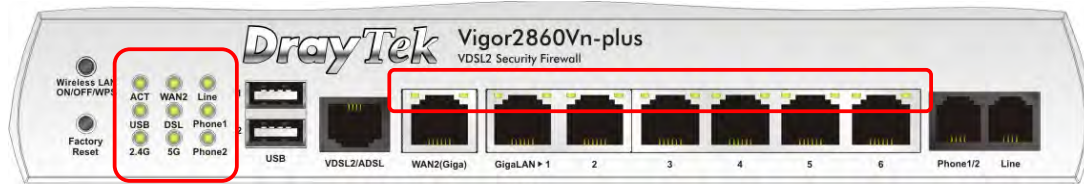
WAN2 (Giga)	Left LED	On	The port is connected.
		Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right LED	On	The port is connected with 1000Mbps.
		Off	The port is connected with 10/100Mbps

GigaLAN 1~6	Left LED	On	The port is connected.
		Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right LED	On	The port is connected with 1000Mbps.
		Off	The port is connected with 10/100Mbps



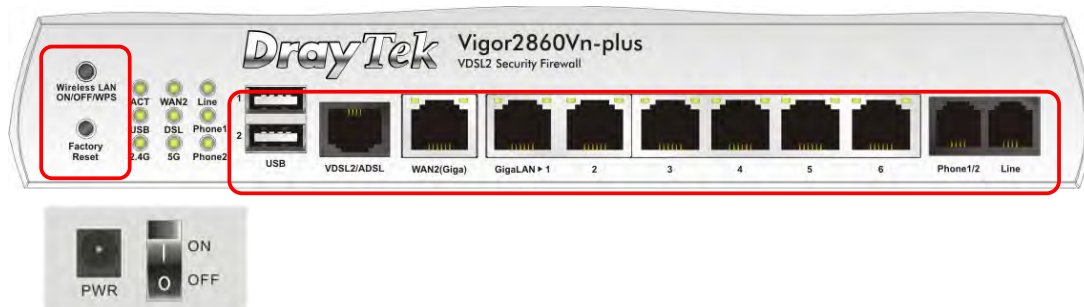
Interface	Description
Wireless LAN ON/OFF/WPS	<p>Press the button and release it within 2 seconds. When the wireless function is ready, the green LED will be on.</p> <p>Press the button and release it within 2 seconds to turn off the WLAN function. When the wireless function is not ready, the LED will be off.</p> <p>When WPS function is enabled by web user interface, press this button for more than 2 seconds to wait for client's device making network connection through WPS.</p>
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.
USB	Connector for a USB device (for 3G/4G USB Modem or printer).
VDSL2/ADSL	Connector for accessing the Internet.
WAN2 (Giga)	Connector for local network devices or modem for accessing Internet.
GigaLAN 1-6	Connectors for local network devices.
PWR	Connector for a power adapter.
ON/OFF	Power Switch.

1.1.4 For Vigor2860Vn-plus



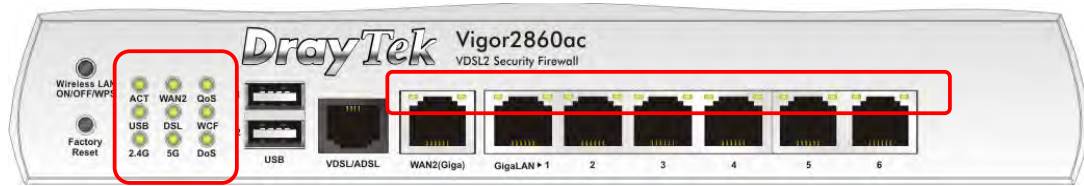
LED	Status	Explanation	
ACT (Activity)	Blinking	The router is powered on and running normally.	
	Off	The router is powered off.	
USB	On	USB device is connected and ready for use.	
	Blinking	The data is transmitting.	
2.4G/5G	On	Wireless access point with bandwidth of 2.4GHz/5GHz is ready.	
	Blinking	It will blink slowly while wireless traffic goes through. ACT and WLAN LEDs blink quickly and simultaneously when WPS is working, and will return to normal condition after two minutes. (You need to setup WPS within 2 minutes.)	
WAN2	On	Internet connection is ready.	
	Off	Internet connection is not ready.	
	Blinking	The data is transmitting.	
DSL	On	The router is ready to access Internet through DSL link.	
	Blinking	Slowly: The DSL connection is ready. Quickly: The connection is training.	
Line	On	A PSTN phone call comes (in and out). However, when the phone call is disconnected, the LED will be off.	
	Off	There is no PSTN phone call.	
Phone (1-2)	On	The phone connected to this port is off-hook.	
	Off	The phone connected to this port is on-hook.	
	Blinking	A phone call comes.	
LED on Connector			
WAN2	Left LED	On	The port is connected.
		Off	The port is disconnected.

(Giga)		Blinking	The data is transmitting.
	Right LED	On	The port is connected with 1000Mbps.
		Off	The port is connected with 10/100Mbps
GigaLAN 1~6	Left LED	On	The port is connected.
		Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right LED	On	The port is connected with 1000Mbps.
		Off	The port is connected with 10/100Mbps



Interface	Description
Wireless LAN ON/OFF/WPS	<p>Press the button and release it within 2 seconds. When the wireless function is ready, the green LED will be on.</p> <p>Press the button and release it within 2 seconds to turn off the WLAN function. When the wireless function is not ready, the LED will be off.</p> <p>When WPS function is enabled by web user interface, press this button for more than 2 seconds to wait for client's device making network connection through WPS.</p>
Factory Reset	<p>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.</p>
USB	Connector for a USB device (for 3G/4G USB Modem or printer).
VDSL2/ADSL	Connector for accessing the Internet.
WAN2 (Giga)	Connector for local network devices or modem for accessing Internet.
GigaLAN 1-6	Connectors for local network devices.
Phone 1/2	Connector for analog phone(s).
Line	Connector for PSTN life line.
PWR	Connector for a power adapter.

1.1.5 For Vigor2860ac

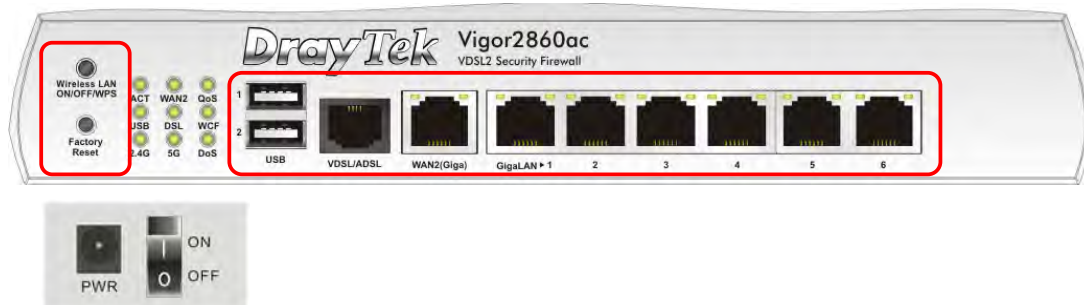


LED	Status	Explanation
ACT (Activity)	Blinking	The router is powered on and running normally.
	Off	The router is powered off.
USB	On	USB device is connected and ready for use.
	Blinking	The data is transmitting.
2.4G/5G	On	Wireless access point with bandwidth of 2.4GHz/5GHz is ready.
	Blinking	It will blink slowly while wireless traffic goes through. ACT and WLAN LEDs blink quickly and simultaneously when WPS is working, and will return to normal condition after two minutes. (You need to setup WPS within 2 minutes.)
WAN2	On	Internet connection is ready.
	Off	Internet connection is not ready.
	Blinking	The data is transmitting.
DSL	On	The router is ready to access Internet through DSL link.
	Blinking	Slowly: The DSL connection is ready. Quickly: The connection is training.
QoS	On	The QoS function is active.
WCF	On	The Web Content Filter is active. (It is enabled from Firewall >> General Setup).
DoS	On	The DoS/DDoS function is active.
	Blinking	It will blink while detecting an attack.

LED on Connector

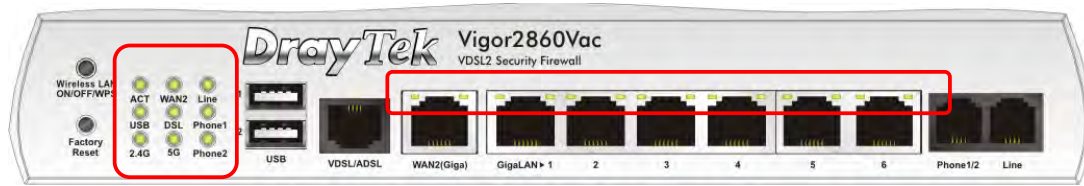
WAN2 (Giga)	Left LED	On	The port is connected.
		Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right LED	On	The port is connected with 1000Mbps.
		Off	The port is connected with 10/100Mbps

GigaLAN 1~6	Left LED	On	The port is connected.
		Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right LED	On	The port is connected with 1000Mbps.
		Off	The port is connected with 10/100Mbps



Interface	Description
Wireless LAN ON/OFF/WPS	<p>Press the button and release it within 2 seconds. When the wireless function is ready, the green LED will be on.</p> <p>Press the button and release it within 2 seconds to turn off the WLAN function. When the wireless function is not ready, the LED will be off.</p> <p>When WPS function is enabled by web user interface, press this button for more than 2 seconds to wait for client's device making network connection through WPS.</p>
Factory Reset	<p>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.</p>
USB	<p>Connector for a USB device (for 3G/4G USB Modem or printer).</p>
VDSL/ADSL	<p>Connector for accessing the Internet.</p>
WAN2 (Giga)	<p>Connector for local network devices or modem for accessing Internet.</p>
GigaLAN 1-6	<p>Connectors for local network devices.</p>
PWR	<p>Connector for a power adapter.</p>
ON/OFF	<p>Power Switch.</p>

1.1.6 For Vigor2860Vac

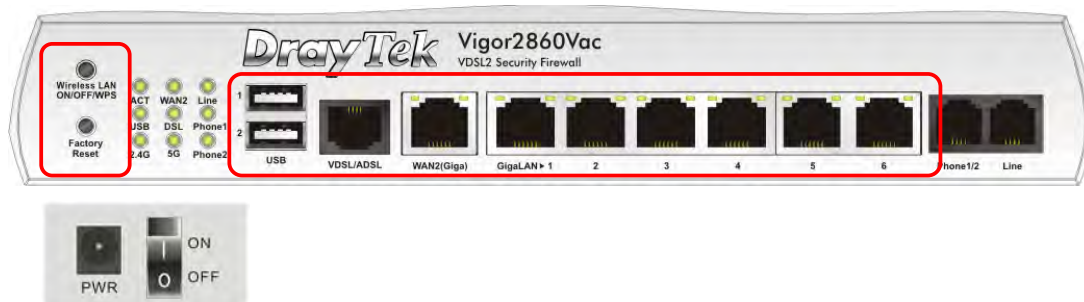


LED	Status	Explanation
ACT (Activity)	Blinking	The router is powered on and running normally.
	Off	The router is powered off.
USB	On	USB device is connected and ready for use.
	Blinking	The data is transmitting.
2.4G/5G	On	Wireless access point with bandwidth of 2.4GHz/5GHz is ready.
	Blinking	It will blink slowly while wireless traffic goes through. ACT and WLAN LEDs blink quickly and simultaneously when WPS is working, and will return to normal condition after two minutes. (You need to setup WPS within 2 minutes.)
WAN2	On	Internet connection is ready.
	Off	Internet connection is not ready.
	Blinking	The data is transmitting.
DSL	On	The router is ready to access Internet through DSL link.
	Blinking	Slowly: The DSL connection is ready. Quickly: The connection is training.
Line	On	A PSTN phone call comes (in and out). However, when the phone call is disconnected, the LED will be off.
	Off	There is no PSTN phone call.
Phone (1-2)	On	The phone connected to this port is off-hook.
	Off	The phone connected to this port is on-hook.
	Blinking	A phone call comes.

LED on Connector

WAN2	Left LED	On	The port is connected.
		Off	The port is disconnected.

(Giga)		Blinking	The data is transmitting.
	Right LED	On	The port is connected with 1000Mbps.
		Off	The port is connected with 10/100Mbps
GigaLAN 1~6	Left LED	On	The port is connected.
		Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right LED	On	The port is connected with 1000Mbps.
		Off	The port is connected with 10/100Mbps

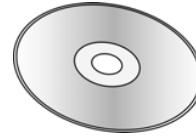


Interface	Description
Wireless LAN ON/OFF/WPS	<p>Press the button and release it within 2 seconds. When the wireless function is ready, the green LED will be on.</p> <p>Press the button and release it within 2 seconds to turn off the WLAN function. When the wireless function is not ready, the LED will be off.</p> <p>When WPS function is enabled by web user interface, press this button for more than 2 seconds to wait for client's device making network connection through WPS.</p>
Factory Reset	<p>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.</p>
USB	Connector for a USB device (for 3G/4G USB Modem or printer).
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WAN2 (Giga)	Connector for local network devices or modem for accessing Internet.
GigaLAN 1-6	Connectors for local network devices.
Phone 1/2	Connector for analog phone(s).
Line	Connector for PSTN life line.
PWR	Connector for a power adapter.
ON/OFF	Power Switch.

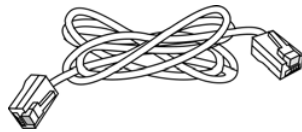
1.2 Package Content



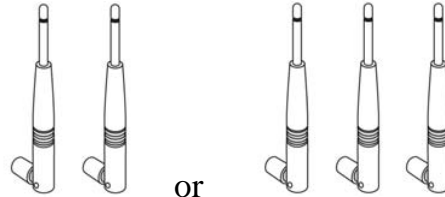
1 Quick Start Guide



2 CD



3 RJ-45 Cable (Ethernet)



4 Antenna x2 (n models)
Antenna x3 (n-plus, ac models)



5 Analog Phone Adapter (V models)

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



RJ-11 to RJ-11 Cable
(Annex A)

Or



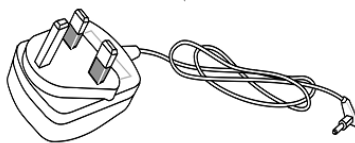
RJ-11 to RJ-45 Cable
(Annex B)

Or

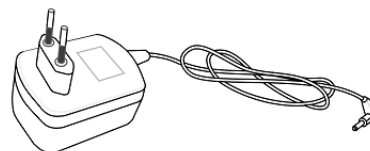


RJ-45 to RJ-45 Cable
(Annex B)

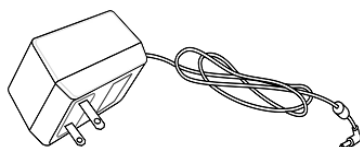
7 The type of the power adapter depends on the country that the router will be installed:



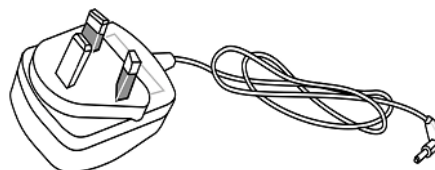
UK-type Power Adapter



EU-type Power Adapter



USA/Taiwan-type Power Adapter



AU/NZ-type Power Adapter

* The maximum power consumption is **24 Watt**.

2. Installing Your Router

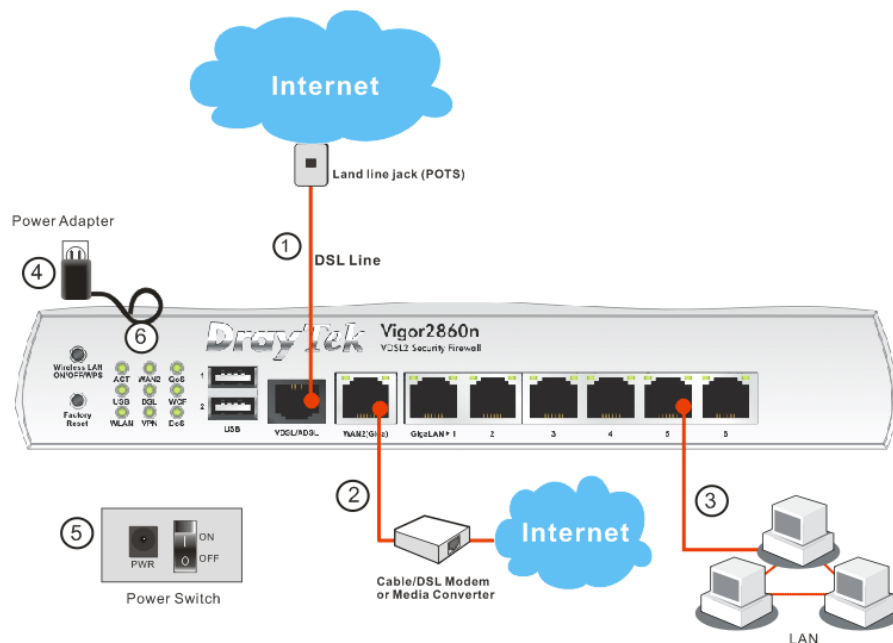
This section will guide you to install the router through hardware connection and configure the router's settings through web browser.

2.1 Hardware Installation

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

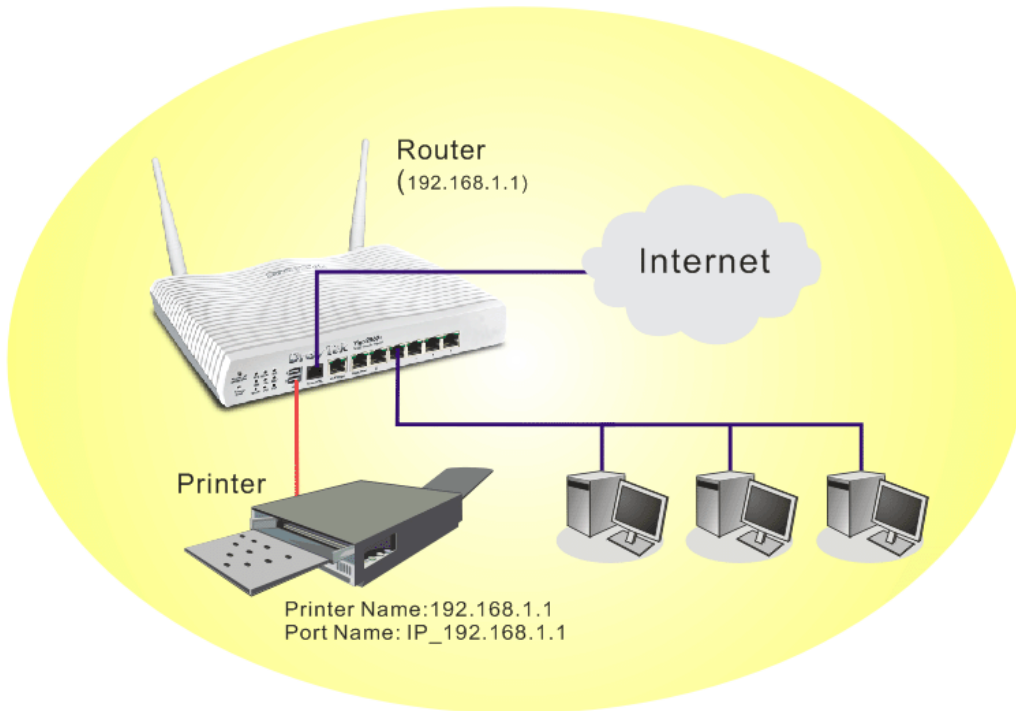
1. Connect the DSL interface to the land line jack with a DSL line cable.
2. Connect the cable Modem/DSL Modem/Media Converter to the WAN port of router with Ethernet cable (RJ-45).
3. Connect one end of an Ethernet cable (RJ-45) to one of the **LAN** ports of the router and the other end of the cable (RJ-45) into the Ethernet port on your computer.
4. Connect one end of the power adapter to the router's power port on the rear panel, and the other side into a wall outlet.
5. Power on the device by pressing down the power switch on the rear panel.
6. The system starts to initiate. After completing the system test, the **ACT** LED will light up and start blinking.

(For the hardware connection, we take “n” model as an example.)



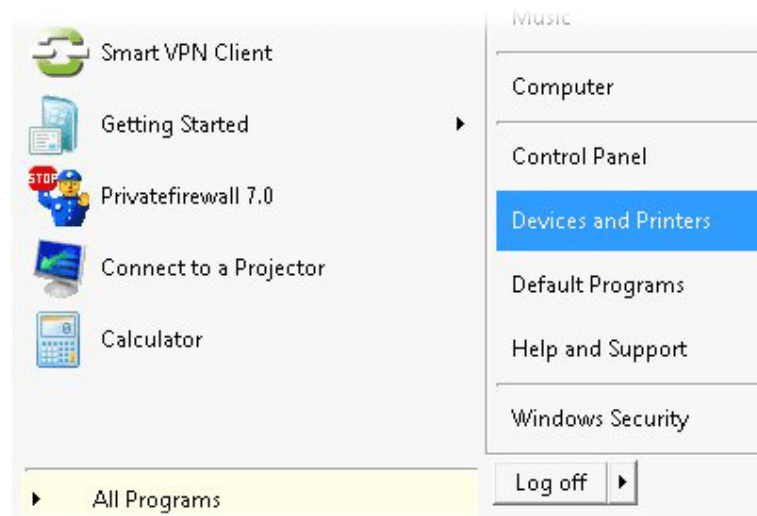
2.2 Printer Installation

You can install a printer onto the router for sharing printing. All the PCs connected this router can print documents via the router. The example provided here is made based on Windows 7. For other Windows system, please visit www.draytek.com.

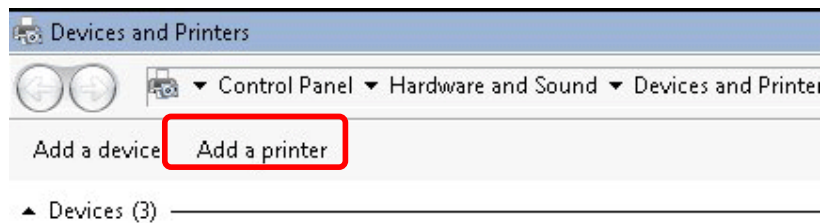


Before using it, please follow the steps below to configure settings for connected computers (or wireless clients).

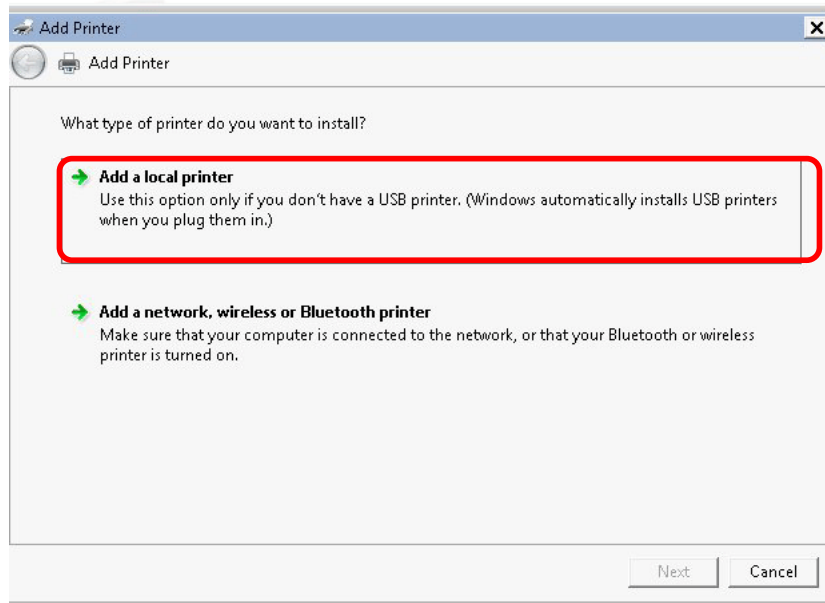
1. Connect the printer with the router through USB port.
2. Open **All Programs>>Getting Started>>Devices and Printers**.



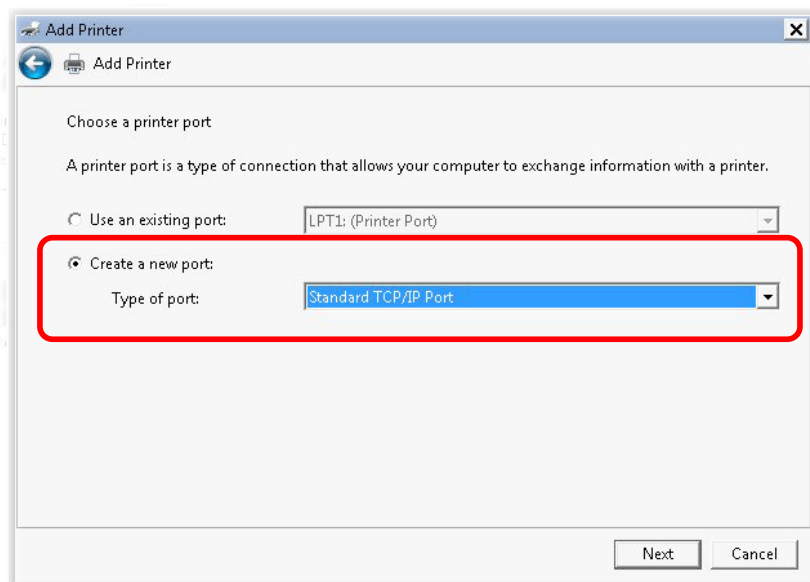
3. Click **Add a printer**.



4. A dialog will appear. Click **Add a local printer** and click **Next**.



5. In this dialog, choose **Create a new port**. In the field of **Type of port**, use the drop down list to select **Standard TCP/IP Port**. Then, click **Next**.



6. In the following dialog, type **192.168.1.1** (router's LAN IP) in the field of **Hostname or IP Address** and type **192.168.1.1** as the **Port name**. Then, click **Next**.

Add Printer

Type a printer hostname or IP address

Device type: TCP/IP Device

Hostname or IP address: 192.168.1.1

Port name: 192.168.1.1

☐ Query the printer and automatically select the driver to use

Next Cancel

7. Click **Standard** and choose **Generic Network Card**.

Add Printer

Additional port information required

The device is not found on the network. Be sure that:

1. The device is turned on.
2. The network is connected.
3. The device is properly configured.
4. The address on the previous page is correct.

If you think the address is not correct, click Back to return to the previous page. Then correct the address and perform another search on the network. If you are sure the address is correct, select the device type below.

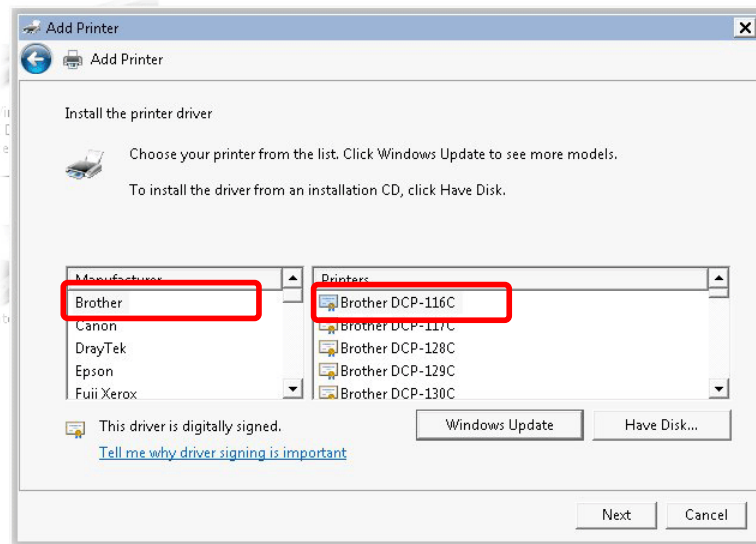
Device Type

☒ Standard Generic Network Card

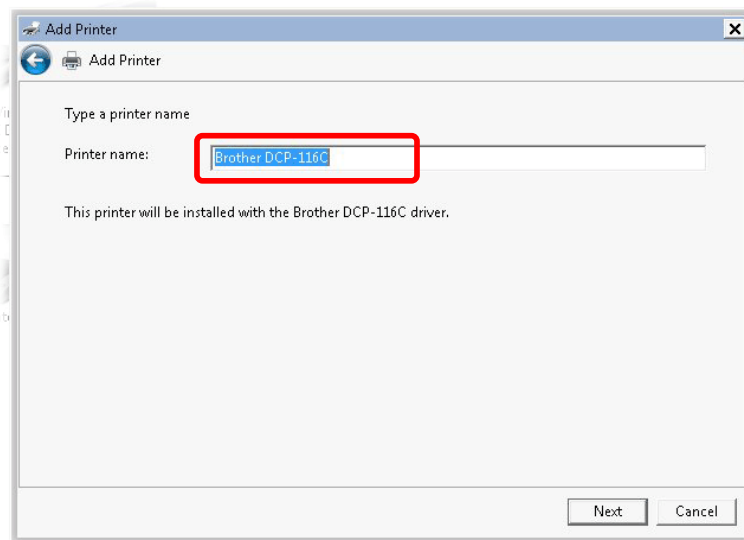
☐ Custom Settings...

Next Cancel

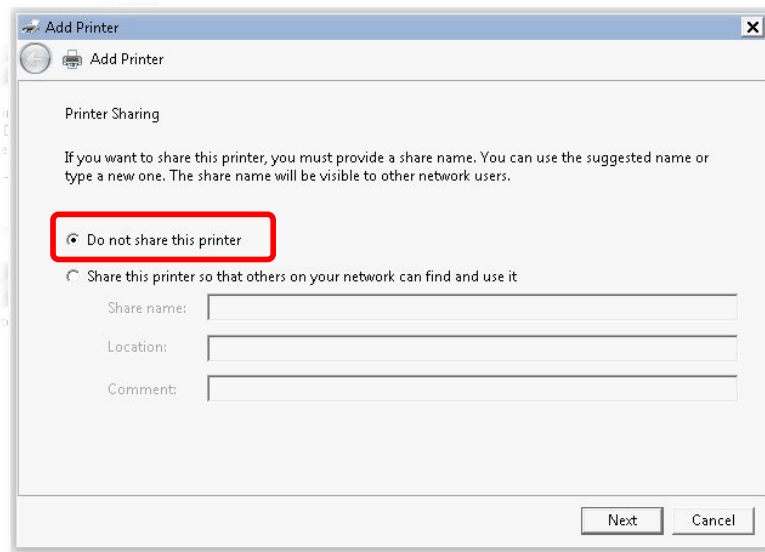
8. Now, your system will ask you to choose right name of the printer that you installed onto the router. Such step can make correct driver loaded onto your PC. When you finish the selection, click **Next**.



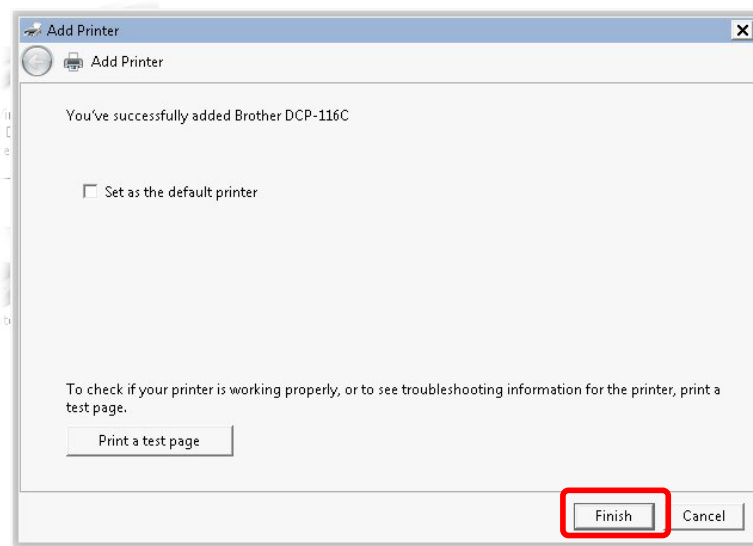
9. Type a name for the chosen printer. Click **Next**.



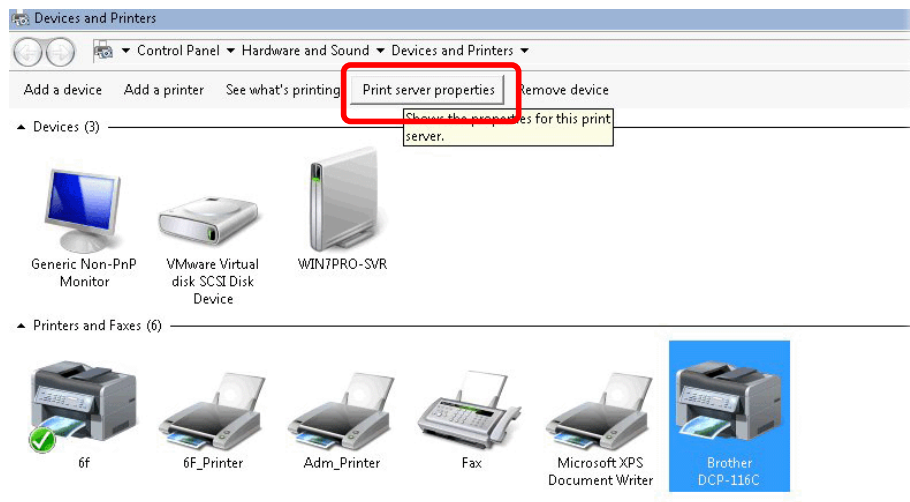
10. Choose **Do not share this printer** and click **Next**.



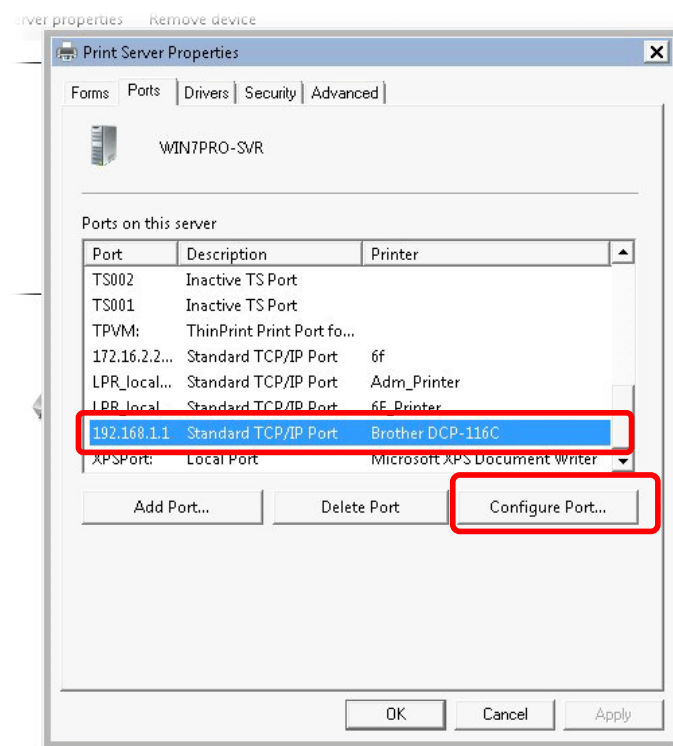
11. Then, in the following dialog, click **Finish**.



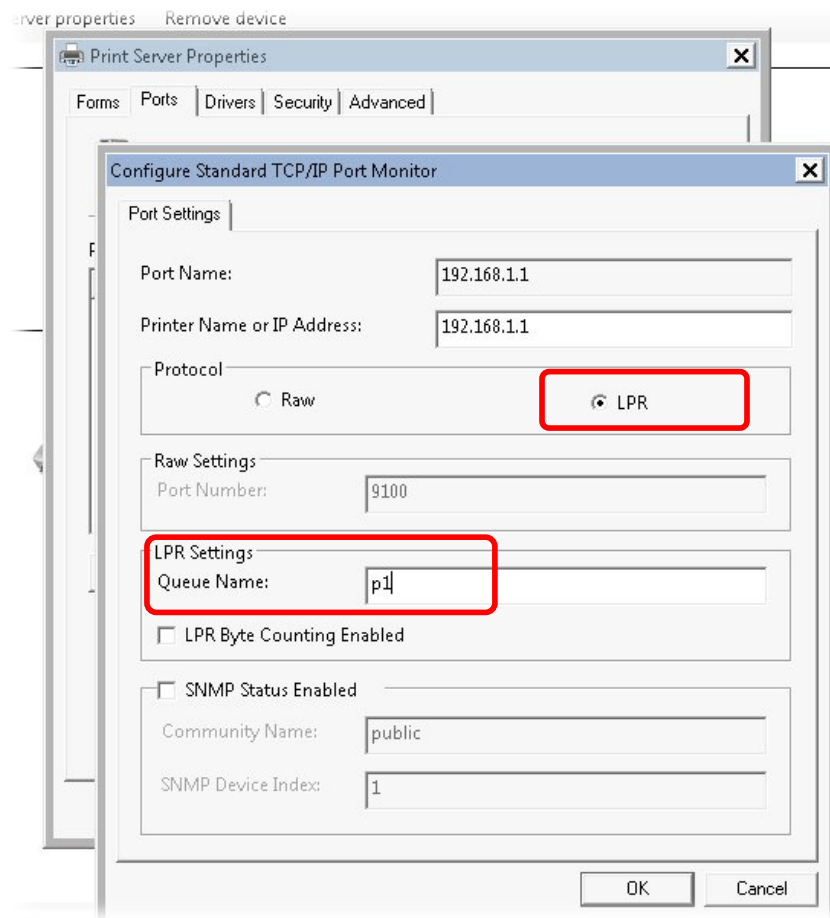
12. The new printer has been added and displayed under **Printers and Faxes**. Click the new printer icon and click **Printer server properties**.



13. Edit the property of the new printer you have added by clicking **Configure Port**.

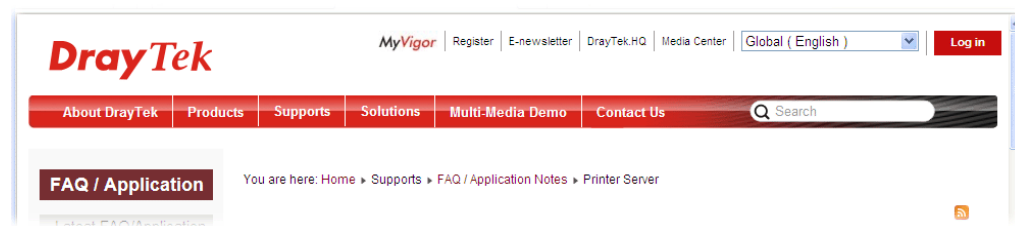


14. Select "**LPR**" on Protocol, type **p1** (number 1) as **Queue Name**. Then click **OK**. Next please refer to the red rectangle for choosing the correct protocol and LPR name.



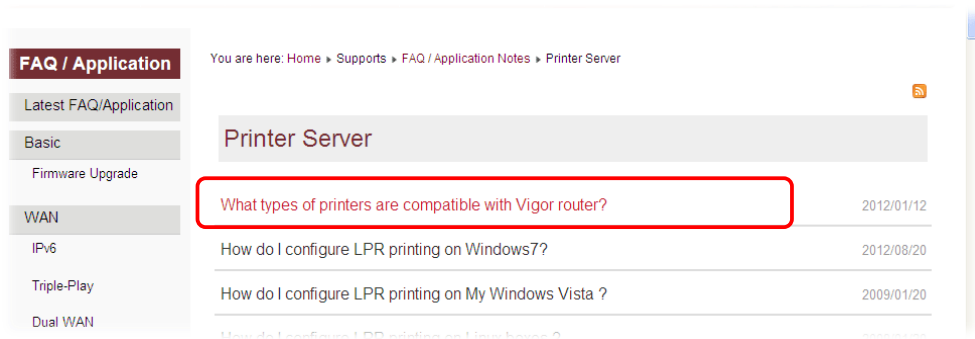
The printer can be used for printing now. Most of the printers with different manufacturers are compatible with vigor router.

Note 1: Some printers with the fax/scanning or other additional functions are not supported. If you do not know whether your printer is supported or not, please visit www.draytek.com to find out the printer list. Open **Support >FAQ/Application Notes**; find out the link of **USB>>Printer Server** and click it.





Then, click the **What types of printers are compatible with Vigor router?** link.



Note 2: Vigor router supports printing request from computers via LAN ports but not WAN port.

This page is left blank.

3. Quick Setup

To access Internet, please finish basic configuration after completing the hardware installation.

3.1 Accessing Web User Interface

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.

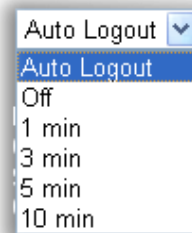
2. Open a web browser on your PC and type **http://192.168.1.1**. The following window will be open to ask for username and password. Please type “**admin/admin**” on Username/Password and click **Login**.



Notice: If you fail to access to the web configuration, please go to “Trouble Shooting” for detecting and solving your problem.

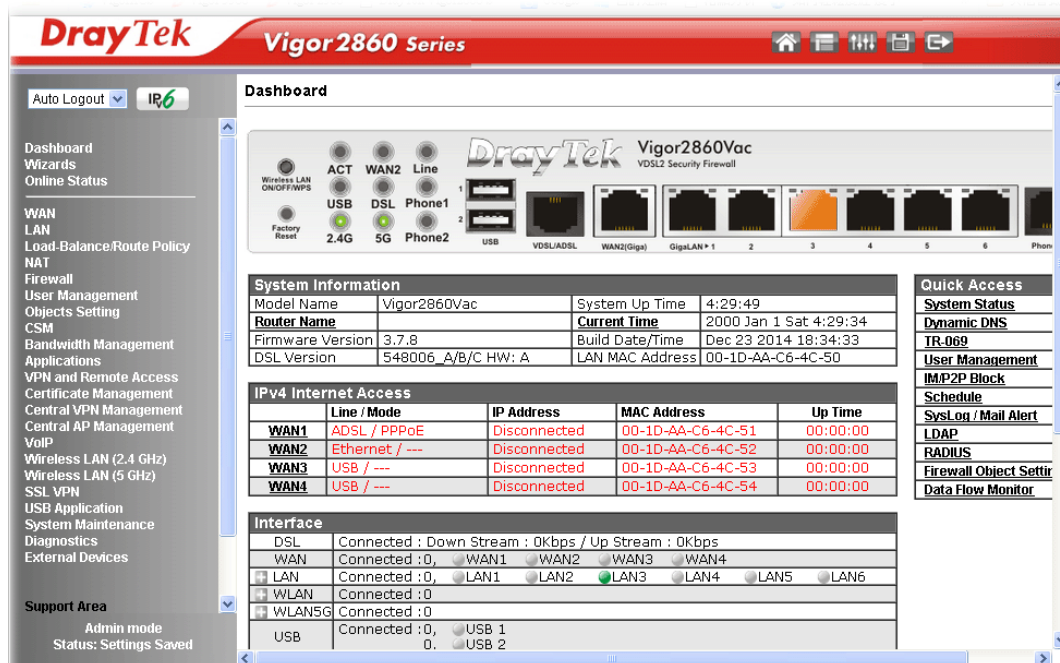
3. Now, the **Main Screen** will pop up.

- The web page can be logged out according to the chosen condition. The default setting is **Auto Logout**, which means the web configuration system will logout after five minutes without any operation. Change the setting for your necessity.



3.2 Basic Configuration – Quick Start Wizard

The **Quick Start Wizard** is designed for you to easily set up your router for Internet access. You can directly access **Wizards>>Quick Start Wizard** via Web User Interface.



The home page will change slightly in accordance with the router model you have.

If your router can be under an environment with high speed NAT, the configuration provide here can help you to deploy and use the router quickly. The first screen of **Quick Start Wizard** is entering login password. After typing the password, please click **Next**.

Quick Start Wizard

Enter login password

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

Old Password

.....

New Password

.....

Confirm Password

.....

< Back

Next >

Finish

Cancel

On the next page as shown below, please select the WAN interface that you use. If DSL interface is used, please choose WAN1; if Ethernet interface is used, please choose WAN2; if 3G USB modem is used, please choose WAN3 or WAN4. Then click **Next** for next step.

Quick Start Wizard

WAN Interface

WAN Interface:

WAN1 ▾

Display Name:

Physical Mode:

ADSL / VDSL2

Physical Type:

Auto negotiation ▾

< Back

Next >

Finish

Cancel

WAN1, WAN2, WAN3 and WAN4 will bring up different configuration page. Refer to the following for detailed information.

3.2.1 For WAN1 (ADSL/VDSL2)

WAN1 is specified for ADSL or VDSL connection.

Quick Start Wizard

WAN Interface

WAN Interface:	WAN1
Display Name:	
Physical Mode:	ADSL / VDSL2
Physical Type:	Auto negotiation

< Back

Next >

Finish

Cancel

Click **Next** to go to the following page. You have to select the appropriate Internet access type **according to the information from your ISP**. For example, you should select PPPoE mode if the ISP provides you PPPoE interface. In addition, the field of **For ADSL Only** will be available only when ADSL is detected. Then click **Next** for next step.

Quick Start Wizard

Connect to Internet

WAN 1	
Protocol	MPoA / Static or Dynamic IP
For ADSL Only:	
Encapsulation	1483 Bridged IP LLC
VPI	0
VCI	88
Fixed IP	<input checked="" type="radio"/> Yes <input type="radio"/> No(Dynamic IP)
IP Address	192.16.20.86
Subnet Mask	255.255.255.0
Default Gateway	192.16.20.1
Primary DNS	8.8.4.4
Second DNS	168.95.192.1

< Back

Next >

Finish

Cancel

PPPoE/PPPoA

1. Choose **WAN1** as WAN Interface and click the **Next** button; you will get the following page.

Quick Start Wizard

Connect to Internet

WAN 1
Protocol PPPoE / PPPoA

For ADSL Only:
Encapsulation PPPoE LLC/SNAP
VPI 0 Auto detect
VCI 88

Fixed IP ☒ Yes ☐ No(Dynamic IP)
IP Address 192.16.20.86
Subnet Mask 255.255.255.0
Default Gateway 192.16.20.1
Primary DNS 8.8.4.4
Second DNS 168.95.192.1

< Back Next > Finish Cancel

2. After finished the above settings, simply click **Next**.

Quick Start Wizard

Set PPPoE / PPPoA

WAN 1
User Name 77494727@hinet.net
Password *****
Confirm Password *****

< Back Next > Finish Cancel

3. Please manually enter the Username/Password provided by your ISP. Then click **Next** for viewing summary of such connection.

Quick Start Wizard

Please confirm your settings:

WAN Interface:	WAN1
Physical Mode:	ADSL / VDSL2
VPI:	0
VC1:	33
Protocol / Encapsulation:	PPPoE / LLC
Fixed IP:	No
Primary DNS:	8.8.8.8
Secondary DNS:	8.8.4.4

[< Back](#)[Next >](#)[Finish](#)[Cancel](#)

4. Click **Finish**. A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.
5. Now, you can enjoy surfing on the Internet.

MPoA / Static or Dynamic IP

1. Choose **WAN1** as WAN Interface and click the **Next** button; you will get the following page.

Quick Start Wizard

Connect to Internet

WAN 1

Protocol

MPoA / Static or Dynamic IP

For ADSL Only:

Encapsulation

1483 Bridged IP LLC

VPI

0

Auto detect

VC1

88

Fixed IP

☒ Yes ☐ No(Dynamic IP)

IP Address

192.16.20.86

Subnet Mask

255.255.255.0

Default Gateway

192.16.20.1

Primary DNS

8.8.4.4

Second DNS

168.95.192.1

[< Back](#)[Next >](#)[Finish](#)[Cancel](#)

2. Please type in the IP address/mask/gateway information originally provided by your ISP. Then click **Next** for viewing summary of such connection.

Quick Start Wizard

Please confirm your settings:

WAN Interface:	WAN1
Physical Mode:	ADSL / VDSL2
VPI:	0
VCI:	33
Protocol / Encapsulation:	1483 Route LLC
Fixed IP:	No
Primary DNS:	8.8.8.8
Secondary DNS:	8.8.4.4

< Back

Next >

Finish

Cancel

3. Click **Finish**. A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.
4. Now, you can enjoy surfing on the Internet.

3.2.2 For WAN2 (Ethernet)

WAN2 is dedicated to physical mode in Ethernet. If you choose WAN2, please specify physical type. Then, click **Next**.

Quick Start Wizard

WAN Interface

WAN Interface:	WAN2
Display Name:	
Physical Mode:	Ethernet
Physical Type:	Auto negotiation

< Back Next > Finish Cancel

On the next page as shown below, please select the appropriate Internet access type according to the information from your ISP. For example, you should select PPPoE mode if the ISP provides you PPPoE interface. Then click **Next** for next step.

PPPoE

1. Choose **WAN2** as the WAN Interface and click the **Next** button. The following page will be open for you to specify Internet Access Type.

Quick Start Wizard

Connect to Internet

WAN 2
Select one of the following Internet Access types provided by your ISP.

- ☒ PPPoE
- ☐ PPTP
- ☐ L2TP
- ☐ Static IP
- ☐ DHCP

< Back Next > Finish Cancel

2. Click **PPPoE** as the Internet Access Type. Then click **Next** to continue.

Quick Start Wizard

PPPoE Client Mode

WAN 2

Enter the user name and password provided by your ISP.

User Name	<input type="text" value="77494727@hinet.net"/>
Password	<input type="password" value="*****"/>
Confirm Password	<input type="password" value="*****"/>

3. Please manually enter the Username/Password provided by your ISP. Click **Next** for viewing summary of such connection.

Quick Start Wizard

Please confirm your settings:

WAN Interface:	WAN2
Physical Mode:	Ethernet
Physical Type:	Auto negotiation
Internet Access:	PPPoE

Click **Back** to modify changes if necessary. Otherwise, click **Finish** to save the current settings and restart the Vigor router.

4. Click **Finish**. A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.
5. Now, you can enjoy surfing on the Internet.

PPTP/L2TP

1. Choose **WAN2** as the WAN Interface and click the **Next** button. The following page will be open for you to specify Internet Access Type.

Quick Start Wizard

Connect to Internet

WAN 2
Select one of the following Internet Access types provided by your ISP.

☐ PPPoE
☐ PPTP
☒ L2TP
☐ Static IP
☐ DHCP

< Back Next > Finish Cancel

2. Click **PPTP/L2TP** as the Internet Access Type. Then click **Next** to continue.

Quick Start Wizard

PPTP Client Mode

WAN 2
Enter the user name, password, WAN IP configuration and PPTP server IP provided by your ISP.

User Name:

Password:

Confirm Password:

WAN IP Configuration

☐ Obtain an IP address automatically
☒ Specify an IP address

IP Address:

Subnet Mask:

Gateway:

Primary DNS:

Second DNS:

PPTP Server:

< Back Next > Finish Cancel

3. Please type in the IP address/mask/gateway information originally provided by your ISP. Then click **Next** for viewing summary of such connection.

Quick Start Wizard

Please confirm your settings:

WAN Interface:	WAN2
Physical Mode:	Ethernet
Physical Type:	Auto negotiation
Internet Access:	PPTP

Click **Back** to modify changes if necessary. Otherwise, click **Finish** to save the current settings and restart the Vigor router.

< Back

Next >

Finish

Cancel

4. Click **Finish**. A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.
5. Now, you can enjoy surfing on the Internet.

Static IP

1. Choose **WAN2** as the WAN Interface and click the **Next** button. The following page will be open for you to specify Internet Access Type.

Quick Start Wizard

Connect to Internet

WAN 2

Select one of the following Internet Access types provided by your ISP.

- ☐ PPPoE
- ☐ PPTP
- ☐ L2TP
- ☒ Static IP
- ☐ DHCP

< Back

Next >

Finish

Cancel

2. Click **Static IP** as the Internet Access type. Simply click **Next** to continue.

Quick Start Wizard

Static IP Client Mode

WAN 2

Enter the Static IP configuration provided by your ISP.

WAN IP	<input type="text" value="192.16.20.86"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Gateway	<input type="text" value="192.16.20.1"/>
Primary DNS	<input type="text" value="8.8.8.8"/>
Secondary DNS	<input type="text" value="8.8.4.4"/> (optional)

< Back

Next >

Finish

Cancel

3. Please type in the IP address information originally provided by your ISP. Then click **Next** for next step.

Quick Start Wizard

Please confirm your settings:

WAN Interface:	WAN2
Physical Mode:	Ethernet
Physical Type:	Auto negotiation
Internet Access:	Static IP

Click **Back** to modify changes if necessary. Otherwise, click **Finish** to save the current settings and restart the Vigor router.

4. Click **Finish**. A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.
5. Now, you can enjoy surfing on the Internet.

DHCP

1. Choose **WAN2** as WAN Interface and click the **Next** button. The following page will be open for you to specify Internet Access Type.

Quick Start Wizard

Connect to Internet

WAN 2
Select one of the following Internet Access types provided by your ISP.

☐ PPPoE
☐ PPTP
☐ L2TP
☐ Static IP
☒ DHCP

< Back Next > Finish Cancel

2. Click **DHCP** as the Internet Access type. Simply click **Next** to continue.

Quick Start Wizard

DHCP Client Mode

WAN 2
If your ISP requires you to enter a specific host name or specific MAC address, please enter it in.

Host Name (optional)

MAC 00 - 1D - AA - A6 - 26 - 1A (optional)

< Back Next > Finish Cancel

3. After finished the settings above, click **Next** for viewing summary of such connection.

Quick Start Wizard

Please confirm your settings:

WAN Interface:	WAN2
Physical Mode:	Ethernet
Physical Type:	Auto negotiation
Internet Access:	DHCP

Click **Back** to modify changes if necessary. Otherwise, click **Finish** to save the current settings and restart the Vigor router.

4. Click **Finish**. A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.
5. Now, you can enjoy surfing on the Internet.

3.2.3 For WAN3/WAN4 (USB)

1. Choose **WAN3/WAN4** as WAN Interface.

Quick Start Wizard

WAN Interface

WAN Interface:	WAN3 ▾
Display Name:	<input type="text"/>
Physical Mode:	USB

< Back Next > Finish Cancel

2. Then, click **Next** for getting the following page.

Quick Start Wizard

Connect to Internet

WAN 3	
Internet Access :	3G/4G USB Modem(PPP mode) ▾
3G/4G USB Modem(PPP mode)	3G/4G USB Modem(PPP mode)
	4G USB Modem(DHCP mode)
SIM PIN code	<input type="text"/>
Modem Initial String	AT&FE0V1X1&D2&C1S0=0
	(Default:AT&FE0V1X1&D2&C1S0=0)
APN Name	<input type="text"/>
	<input type="button" value="Apply"/>

< Back Next > Finish Cancel

3. After finished the settings above, click **Next** for viewing summary of such connection.

Quick Start Wizard

Please confirm your settings:

WAN Interface:	WAN3
Physical Mode:	USB
Internet Access:	PPP

Click **Back** to modify changes if necessary. Otherwise, click **Finish** to save the current settings and restart the Vigor router.

< Back

Next >

Finish

Cancel

4. Click **Finish**. A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.
5. Now, you can enjoy surfing on the Internet.

3.3 Wireless Configuration



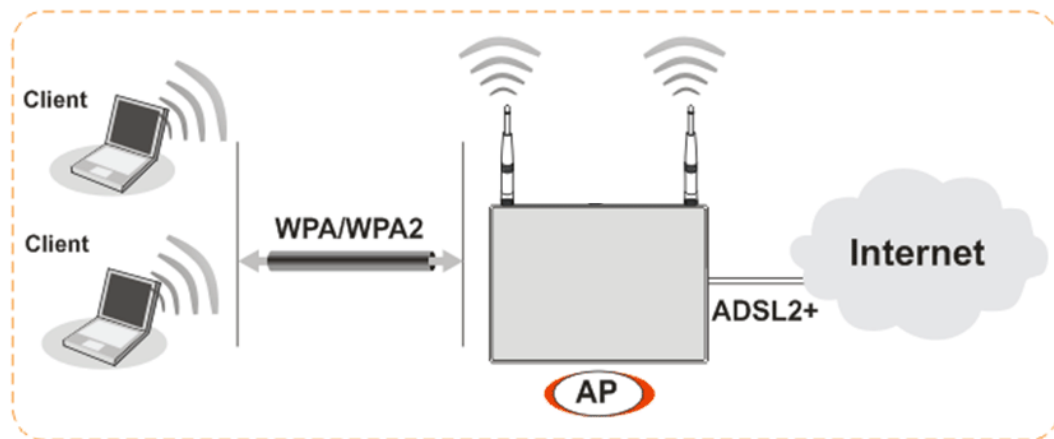
For the user of Vigor2860, please skip this section.

For operating Vigor2860n/Vigor2860n-plus/Vigor2860Vn-plus/Vigor2860ac/Vigor2860Vac series 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.)

3.3.1 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 (clients) will share the same Internet connection with other wired hosts via Vigor wireless router.



3.3.2 General Setup

1. On the **Wireless LAN(2.4GHz or 5GHz)** group, select **General Setup**. The following page will be shown.

Wireless LAN(2.4GHz) >> General Setup

General Setting (IEEE 802.11)

☒ Enable Wireless LAN

Mode : Mixed(11b+11g+11n)

Channel: Channel 6, 2437MHz

	Enable	Hide SSID	SSID	Isolate Member	Isolate VPN
1	<input type="checkbox"/>	<input type="checkbox"/>	DrayTek	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="checkbox"/>	<input type="checkbox"/>	DrayTek_Guest	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
4	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

Note:
Enabling the Isolate Member configuration will forbid the wireless clients associated to the same SSID from connecting to each other.

The isolate VPN configuration will isolate the wireless traffic from VPN connections and thus, wireless clients will not be able to access the VPN network under this setting.

Rate Control

	Enable	Upload	Download
SSID 1	<input type="checkbox"/>	30000 kbps	30000 kbps
SSID 2	<input type="checkbox"/>	30000 kbps	30000 kbps
SSID 3	<input type="checkbox"/>	30000 kbps	30000 kbps
SSID 4	<input type="checkbox"/>	30000 kbps	30000 kbps

Note:
Configurable upload and download rates are from 100 to 50,000(kbps).

Associated Schedule Profiles: , , ,

Note:
Only schedule profiles that have the action "Force Down" are applied to the WLAN, all other actions are ignored. Valid settings are profile indexes 1 to 15.

OK Cancel

2. Check **Enable Wireless LAN** to enable the wireless function.
3. Choose **Mixed (11b+11g+11n)/Mixed (11a+11n+11c)** mode.

Note: In which, 802.11b/g operates on 2.4G band, 802.11a operates on 5G band, 802.11n operates on either 2.4G or 5G band, and 802.11ac operates on 5G band only.

4. Type in the name of the **SSID**. The default name for SSID is **DrayTek**. We suggest you to change it with a particular name.
5. Click **OK** to save the configuration.

Note: For the detailed information about wireless connection with rate in 2.4GHz/5GHz, refer to User's Guide.

3.3.3 Security Settings

1. On the **Wireless LAN** group, select **Security**.

Wireless LAN(2.4GHz) >> Security Settings

SSID 1 SSID 2 SSID 3 SSID 4

Mode: WEP/802.1x Only

WPA

Encryption Mode: TKIP for WPA/AES for WPA2

Pre-Shared Key(PSK): *****

Type 8~63 ASCII character or 64 Hexadecimal digits leading by "0x", for example "cfs01a2..." or "0x655abcd....".

WEP

Encryption Mode: 64-Bit

☒ Key 1 : *****

☐ Key 2 : *****

☐ Key 3 : *****

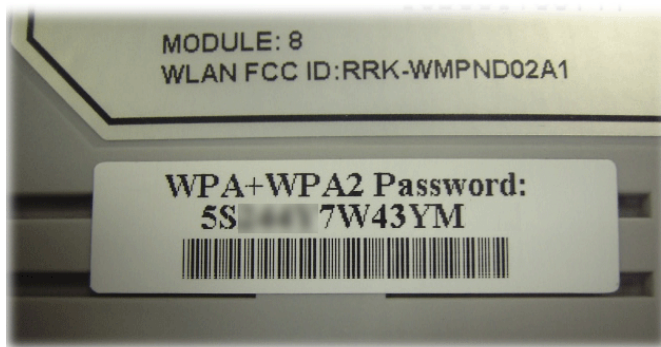
☐ Key 4 : *****

Note:
Please configure the RADIUS Server if 802.1x is used.
For 64 bit WEP key configurations, please insert 5 ASCII characters or 10 Hexadecimal digits leading by "0x". Examples are "AB312" or "0x4142333132".
For 128 bit WEP key configurations, please insert 13 ASCII characters or 26 Hexadecimal digits leading by "0x".

OK Cancel

2. The default security mode is **Mixed (WPA+WPA2)/PSK**. For the wireless client who wants to access into Internet through such router, please **input the default PSK** value for connection.

Default Pre-Shared Key (PSK) with 13 ASCII characters is provided and stated on the label pasted on the bottom of the router.



3. Click **OK** to save settings.

Note that for the communication, all wireless devices must support the same encryption bit length and share the same key. If WEP mode is selected, only one of four preset keys can be selected at one time.

3.4 Registering Vigor Router

You have finished the configuration of Quick Start Wizard and you can surf the Internet at any time. Now it is the time to register your Vigor router to MyVigor website for getting more service. Please follow the steps below to finish the router registration.

1. Please login the web configuration interface of Vigor router by typing “**admin/admin**” as User Name / Password.



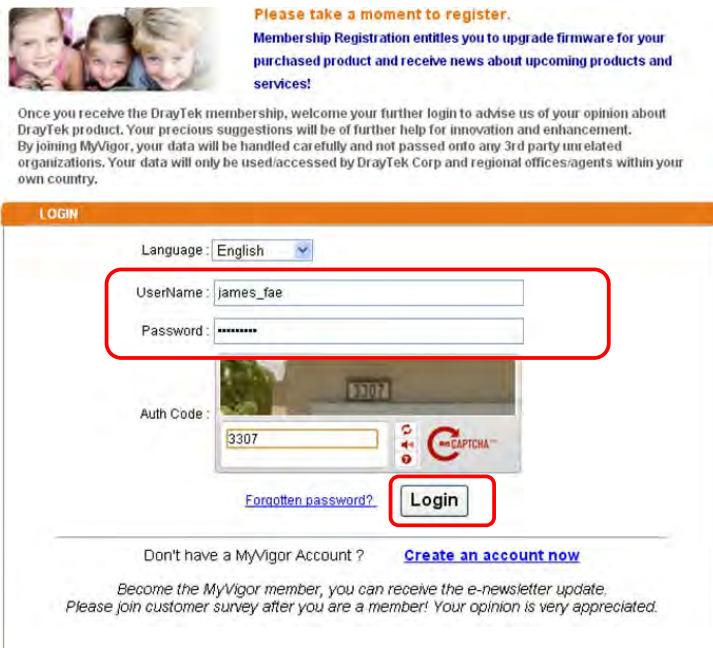
The image shows the login interface for a DrayTek Vigor2860 Series router. At the top, there is a red banner with the DrayTek logo and 'Vigor2860 Series'. Below this is a 'Login' section with a white background. It contains three input fields: 'Username' with 'admin' entered, 'Password' with masked characters '•••••', and 'Group' with a dropdown menu showing '---'. A 'Login' button is located below the password field. At the bottom, there is a small copyright notice: 'Copyright © 2012 DrayTek Corp. All Rights Reserved.'

2. Click **Support Area>>Production Registration** from the home page.



A button with a dark grey background and white text that reads 'Support Area' and 'Product Registration'.

3. A **Login** page will be shown on the screen. Please type the account and password that you created previously. And click **Login**.



The image shows the MyVigor login page. At the top left, there is a small photo of three children. To the right of the photo, there is a message: 'Please take a moment to register. Membership Registration entitles you to upgrade firmware for your purchased product and receive news about upcoming products and services!'. Below this message, there is a paragraph of text: 'Once you receive the DrayTek membership, welcome your further login to advise us of your opinion about DrayTek product. Your precious suggestions will be of further help for innovation and enhancement. By joining MyVigor, your data will be handled carefully and not passed onto any 3rd party unrelated organizations. Your data will only be used/accessed by DrayTek Corp and regional offices/agents within your own country.' Below the text, there is a 'LOGIN' section with a white background. It contains a 'Language' dropdown menu set to 'English'. Below this are two input fields: 'UserName' with 'james_fae' entered and 'Password' with masked characters '•••••••'. Below the password field is a 'Auth Code' section with a CAPTCHA image showing the number '3307' and a 'CAPTCHA' label. Below the CAPTCHA is a 'Forgotten password?' link and a 'Login' button. At the bottom, there is a link 'Create an account now' and a paragraph of text: 'Become the MyVigor member, you can receive the e-newsletter update. Please join customer survey after you are a member! Your opinion is very appreciated.'



If you haven't an accessing account, please refer to section 4.9 Creating an Account for MyVigor on User's Guide to create your own one. Please **read the articles on the Agreement regarding user rights** carefully while creating a user account.

- The following page will be displayed after you logging in MyVigor. From this page, please click **Add** or **Product Registration**.

DrayTek MyVigor

Home Search

My Information

Welcome, **james_fae**
Last Login Time : 2011-08-24 09:39:13
Last Login From : 123.110.144.220
Current Login Time : 2011-08-24 23:01:15
Current Login From : 114.37.142.184

RowNo : 5 PageNo : 1 **Add**

Your Device List

Serial Number / Host ID	Device Name	Model	Note
104001703857	Vigor2710	Vigor2710	-
200807100001	VigorPro5300	VigorPro5300	-
200911030001	ryan	VigorPro5300	-

Product Registration

Customer Survey

- When the following page appears, please type in Nickname (for the router) and choose the right registration date from the popup calendar (it appears when you click on the box of Registration Date). After adding the basic information for the router, please click **Submit**.

DrayTek MyVigor

Home Search GO

My Product Search for this site GO

Registration Device

Serial number : 2011082214320301

Nickname : * **vigor2860**

Registration Date : **08-24-2011**

Usage : - Select -

Product Rating : - Select - [Your opinion so far]

No. of Employees : - Select - [In total within your company]

Supplier : [] [Where you bought it from]

Date of Purchase : [] [mm-dd-yyyy]

Internet Connection : *

☐ Cable ☐ ADSL ☐ VDSL ☐ Fiber

☐ 3G ☐ WIMAX ☐ LTE

Cancel **Submit**

6. When the following page appears, your router information has been added to the database.

Your device has been successfully added to the database.



7. After clicking **OK**, you will see the following page. Your router has been registered to *myvigor* website successfully



This page is left blank.

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 sections below to check your basic installation status stage by stage.

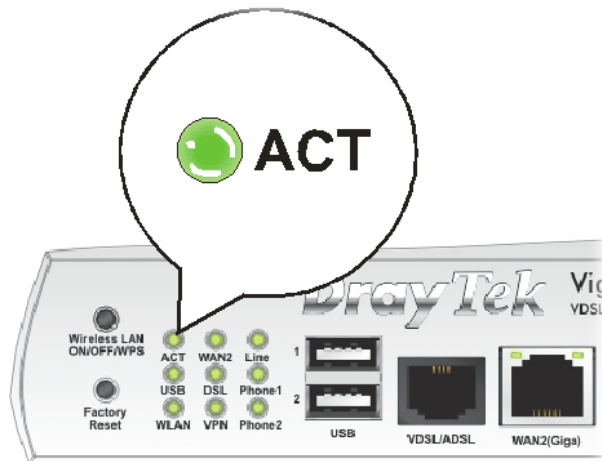
- Checking if the hardware status is OK or not.
- Checking if the network connection settings on your computer are OK or not.
- Pinging the router from your computer.
- Checking if the ISP settings are OK or not.
- Backing to factory default setting if necessary.

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 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

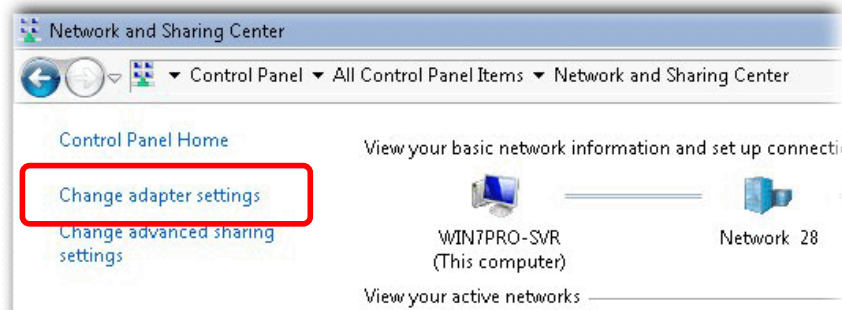


The example is based on Windows 7. As to the examples for other operation systems, please refer to the similar steps or find support notes in www.draytek.com.

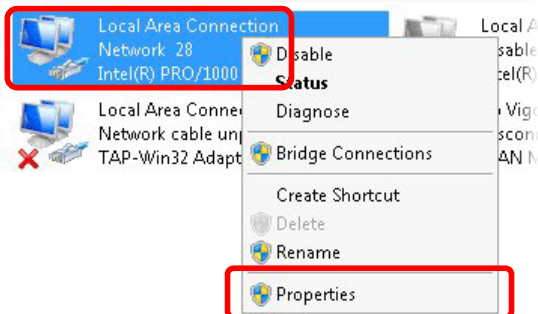
1. Open **All Programs>>Getting Started>>Control Panel**. Click **Network and Sharing Center**.



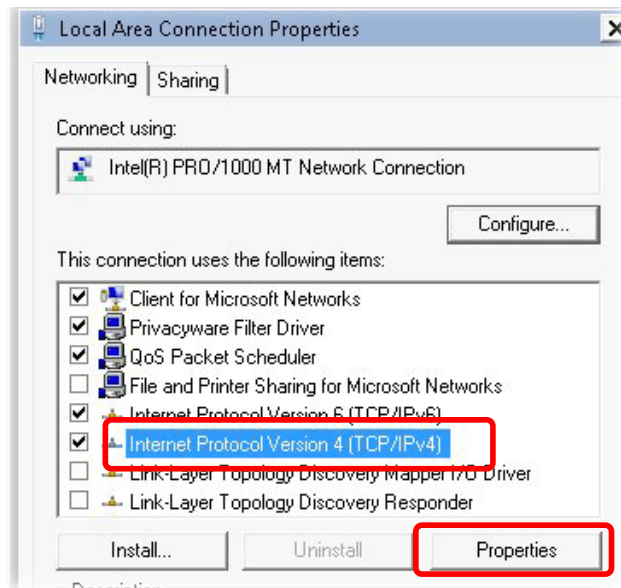
2. In the following window, click **Change adapter settings**.



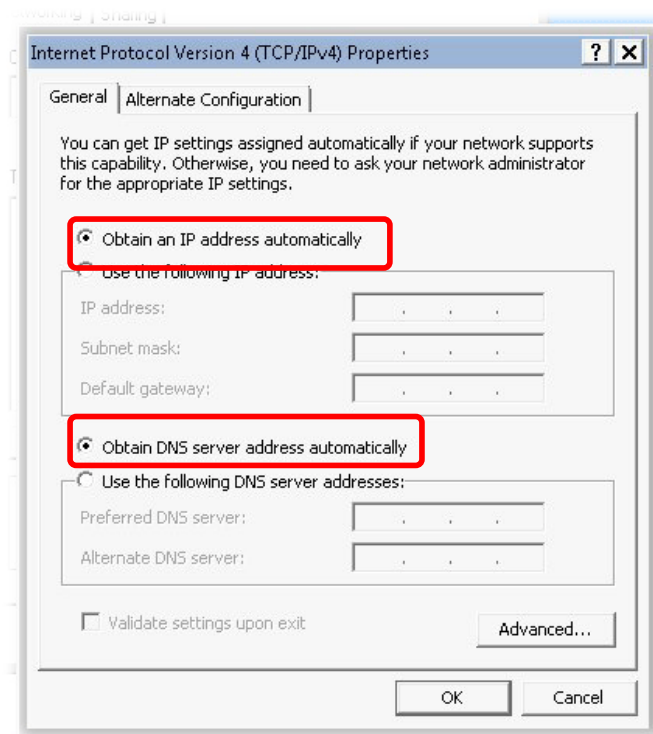
3. Icons of network connection will be shown on the window. Right-click on **Local Area Connection** and click on **Properties**.



4. Select **Internet Protocol Version 4 (TCP/IP)** and then click **Properties**.

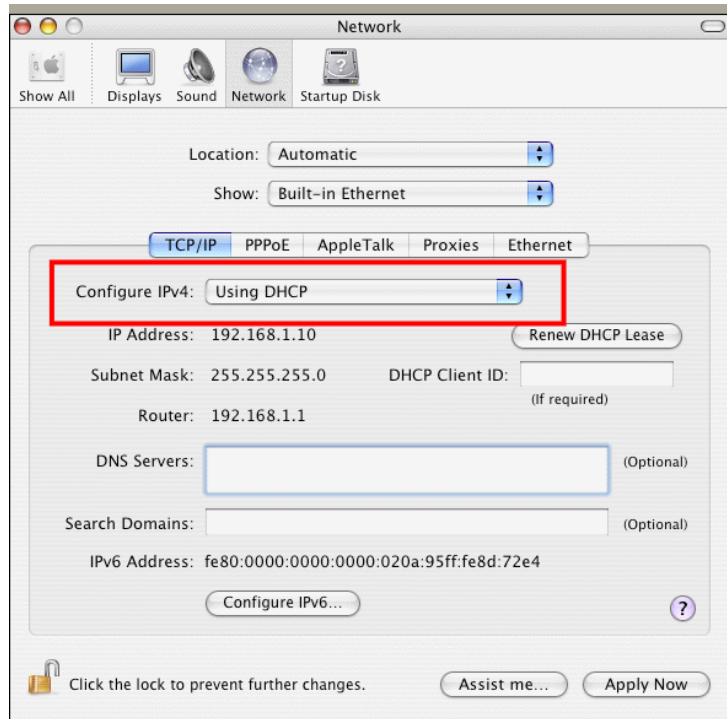


5. Select **Obtain an IP address automatically** and **Obtain DNS server address automatically**. Finally, click **OK**.



For Mac OS

1. Double click on the current used Mac OS 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

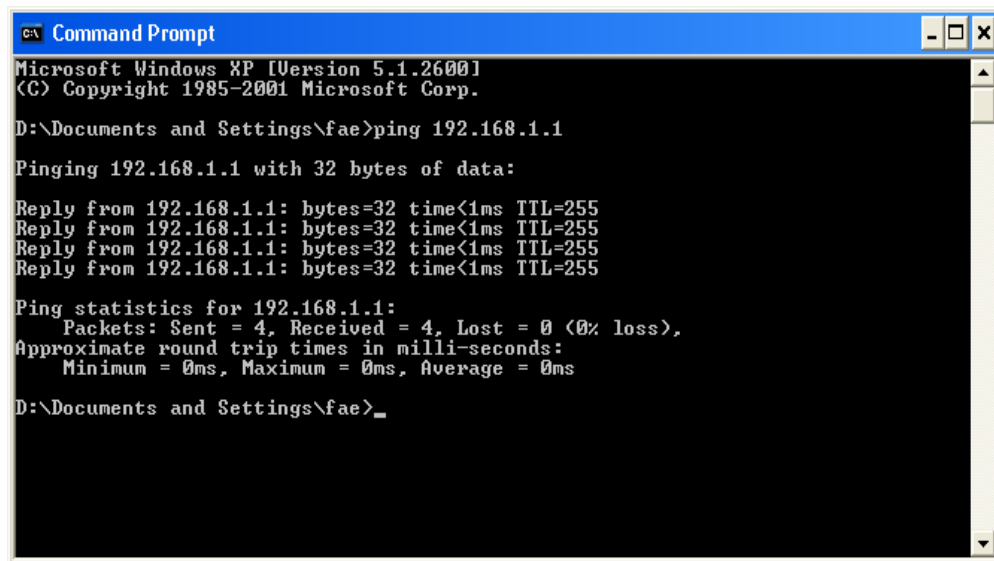
The default gateway IP address of the router is 192.168.1.1. For some reason, you might need to use “ping” command to check the link status of the router.

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/Vista/7). The DOS command dialog will appear.



```

C:\> Command Prompt
Microsoft Windows XP [Version 5.1.2600.1
(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

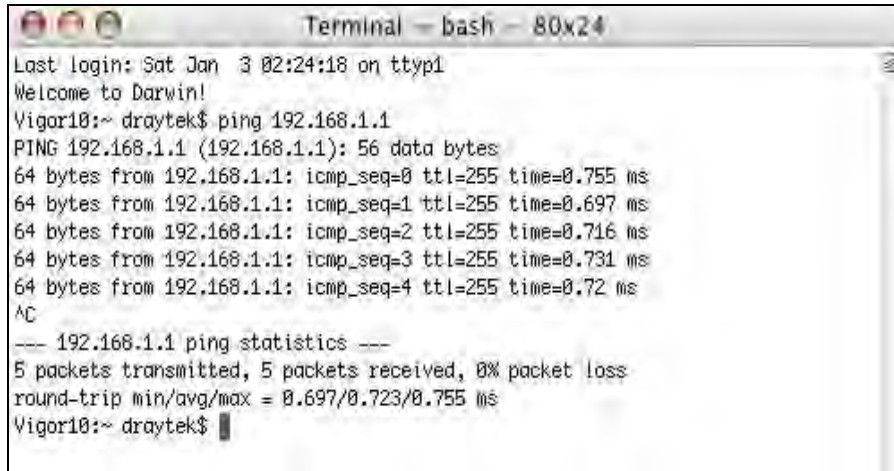
D:\Documents and Settings\fae>_

```

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=255**” will appear.
4. If the line does not appear, please check the IP address setting of your computer.

For Mac OS (Terminal)

1. Double click on the current used Mac OS 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 ttty0
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$
```

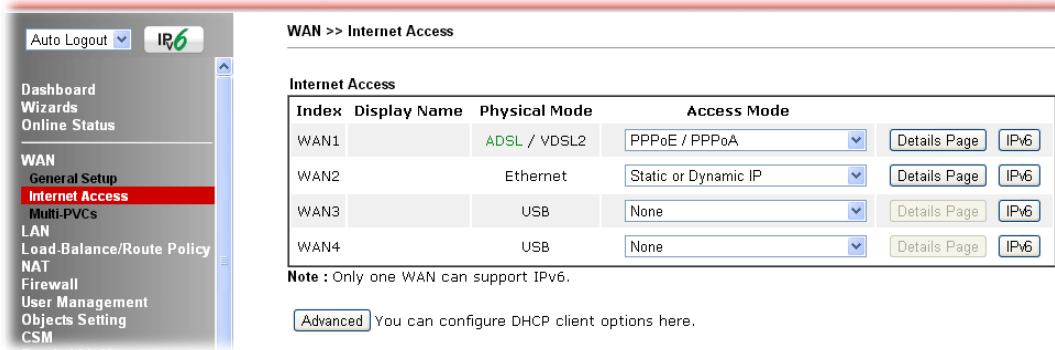
4.4 Checking If the ISP Settings are OK or Not

If WAN connection cannot be up, check if the LEDs (according to the LED explanations listed on section 1.2) are correct or not. If the LEDs are off, please:

- Change the **Physical Type** from **Auto negotiation** to other values (e.g., 100M full duplex).
- Next, change the physical type of modem (e.g., DSL/FTTX(GPON)/Cable modem) offered by ISP with the same value configured in Vigor router. Check if the LEDs on Vigor router are on or not.
- If not, please install an additional switch for connecting both Vigor router and the modem offered by ISP. Then, check if the LEDs on Vigor router are on or not.
- If the problem of LEDs cannot be solved by the above measures, please contact with the nearest reseller, or send an e-mail to DrayTek FAE for technical support.
- Check if the settings offered by ISP are configured well or not.

When the LEDs are on and correct, yet the WAN connection still cannot be up, please:

- Open **WAN >> Internet Access** page and then check whether the ISP settings are set correctly. Click **Details Page** of WAN1-WAN4 to review the settings that you configured previously.



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 the router to factory default via Web page. Go to **System Maintenance** and choose **Reboot System** on the web page. The following screen will appear. Choose **Using factory default configuration** and click **Reboot Now**. 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

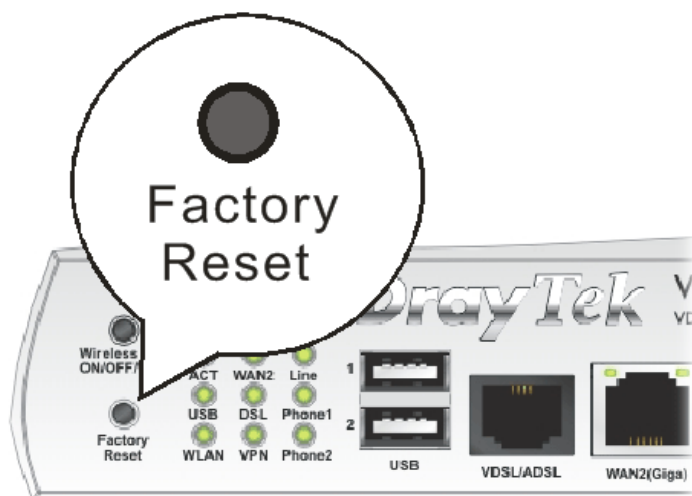
Auto Reboot Time Schedule

Index(1-15) in Schedule Setup: , , ,

Note: Action and Idle Timeout settings will be ignored.

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 DrayTek

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.