

DrayTek

Vigor2832 Series

ADSL2/2+ Security Firewall



Quick Start Guide

V1.0

Vigor2832 Series

ADSL2/2+ Security Firewall

Quick Start Guide

Version: 1.0

Firmware Version: V3.8.3_RC2

(For future update, please visit [DrayTek web site](#))

Date: June 13, 2016

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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 0 to +45 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.

European Community Declarations

Manufacturer: DrayTek Corp.
Address: No. 26, Fu Shing Road, HuKou Township, HsinChu Industrial Park, Hsin-Chu
County, Taiwan 303
Product: Vigor2832 Series

DrayTek Corp. declares that Vigor2832 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 the POTS, DSL and 2.4GHz WLAN network throughout the EC region. Please see the user manual for the applicable networks on your product.

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.



More update, please visit www.draytek.com.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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>

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1. Introduction

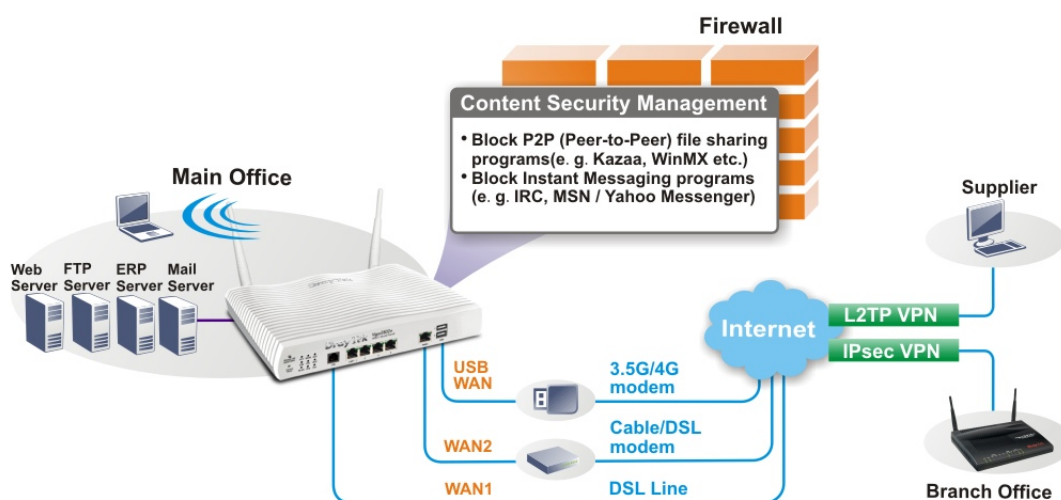
Vigor2832 series is an ADSL2/2+ router. It integrates IP layer QoS, NAT session/bandwidth management to help users control works well with large bandwidth.

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. By the way, DoS/DDoS prevention and URL/Web content filter strengthen the security outside and control inside.

Vigor2832 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.

Security & Firewall Multi-WAN Load Balancing/Failover

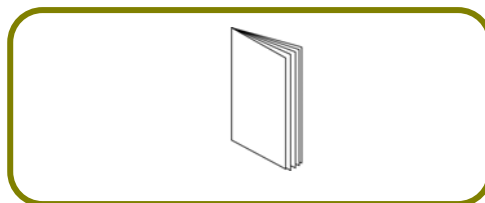


2. Package Content

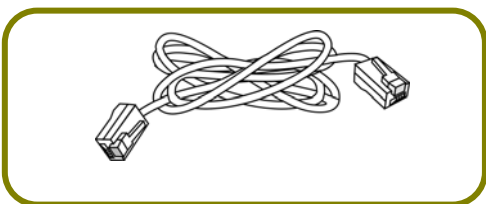
Take a look at the package content. If there is anything missed or damaged, please contact DrayTek or dealer immediately.



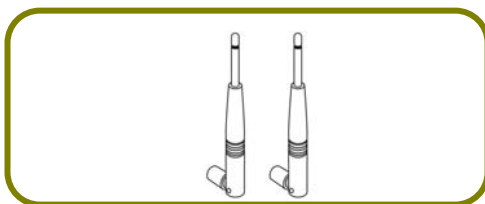
Vigor Router



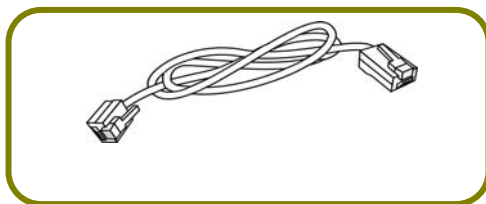
Quick Start Guide



RJ-45 Cat-5 Ethernet Cable

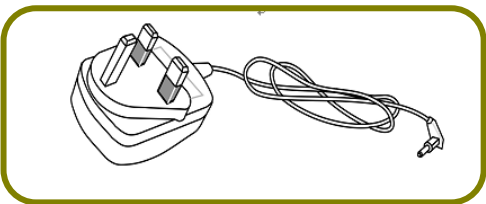


Antenna (for "n" model)

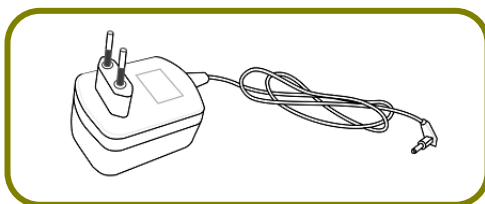


**RJ-11 to RJ-45 Cable (Annex B)
RJ-11 to RJ-11 Cable (Annex A)**

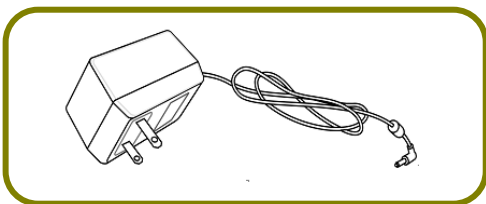
The type of the power adapter depends on the country that the router will be installed. * The maximum power consumption is *17-23 Watt*.



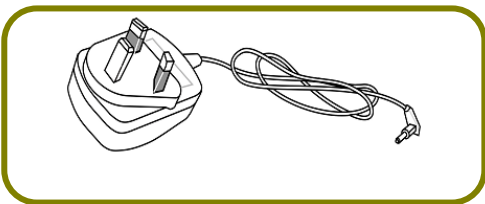
UK-type Power Adapter



EU-type Power Adapter

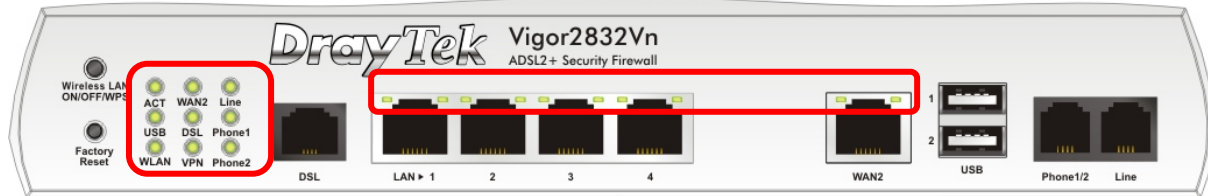
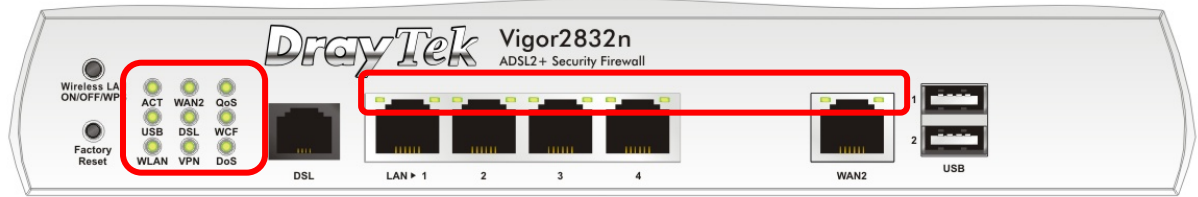
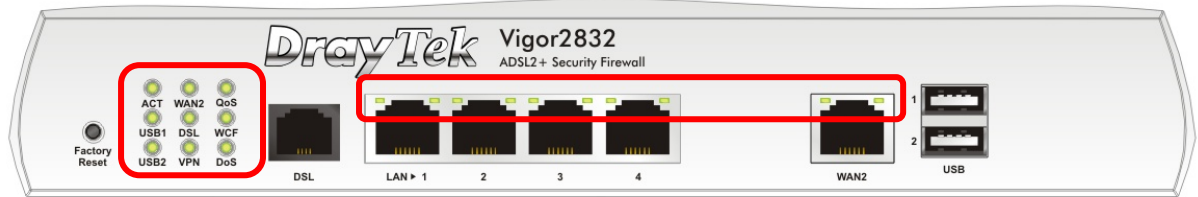


USA/Taiwan-type Power Adapter



AU/NZ-type Power Adapter

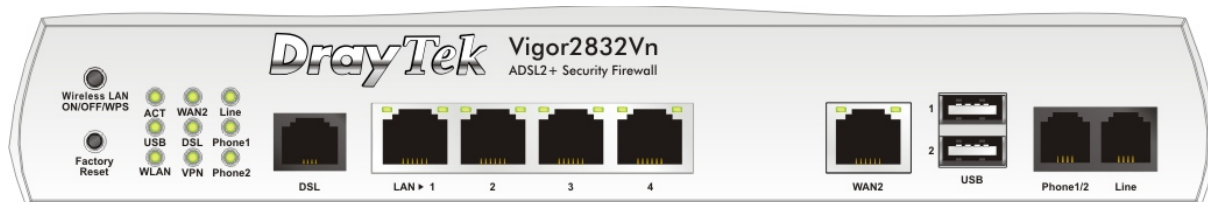
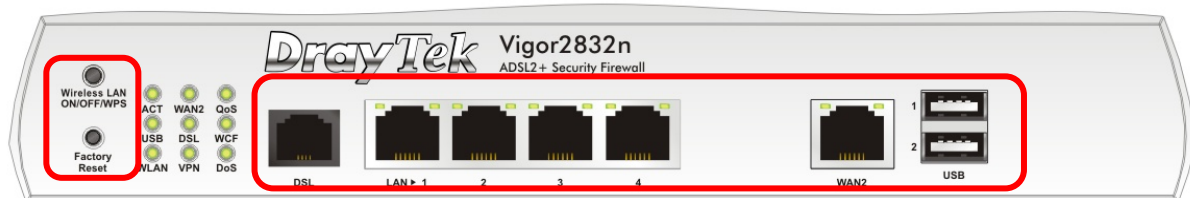
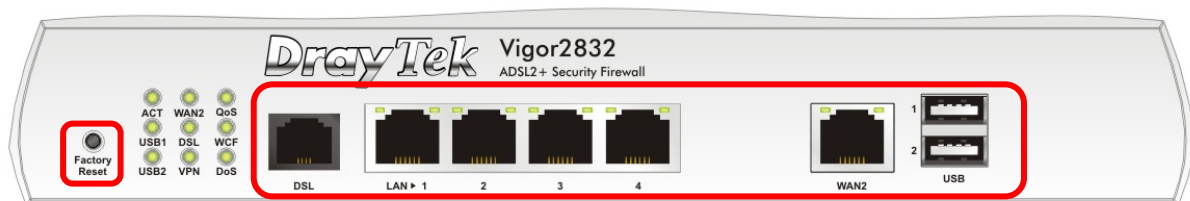
3. Panel Explanation



LED	Status	Explanation
ACT (Activity)	Blinking	The router is powered on and running normally.
	Off	The router is powered off.
USB1~USB2 / USB	On	A USB device is connected and active.
	Blinking	The data is transmitting.
WLAN	On	Wireless access point is ready.
	Blinking	Ethernet packets are transmitting over wireless LAN.
	Off	The WLAN function is inactive.
WAN2	On	The WAN2 connection is ready.
	Blinking	It will blink while transmitting data.
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	VPN tunnel is up and down.
	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.
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

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



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.
Wireless LAN ON/OFF/WPS	WLAN On - Press the button and release it within 2 seconds. When the wireless function is ready, the green LED will be on. WLAN Off - 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. WPS - 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.
DSL	Connector for accessing the Internet through ADSL2/2+.
LAN1~LAN4	Connectors for local networked devices.
WAN2	Connector for remote networked devices.
USB1~USB2	Connector for a USB device (for 3G/4G USB Modem or printer).
Phone 1/2	Connector for analog phone(s).
Line	Connector for PSTN life line.
PWR	Connector for a power cord.
ON/OFF	Power Switch.

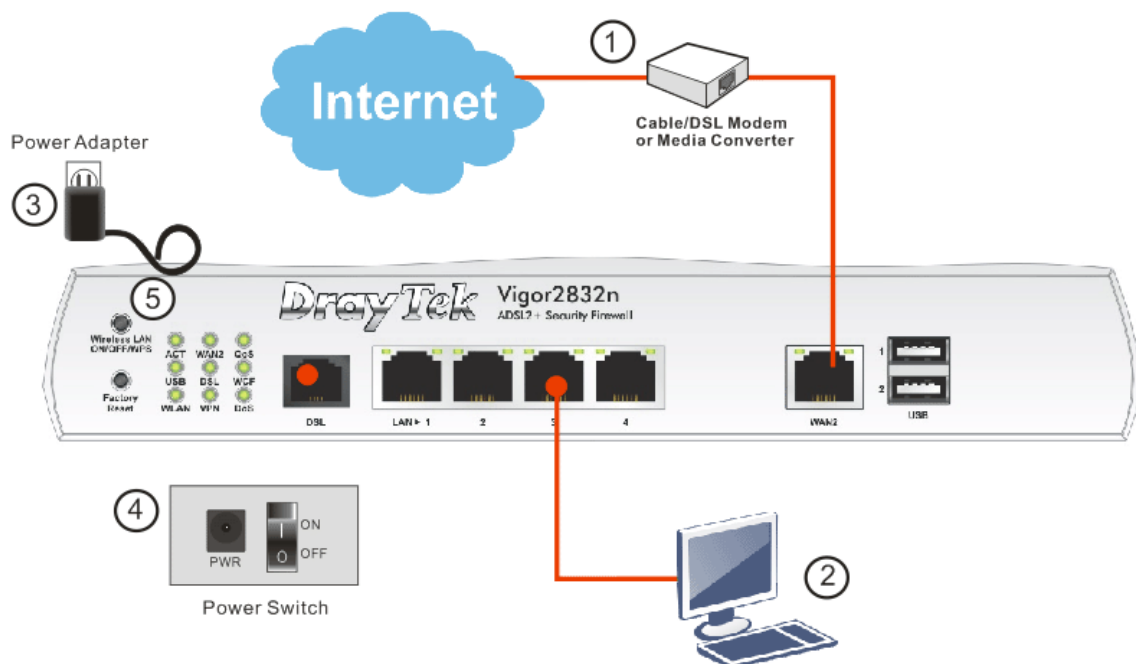
4. Hardware Installation

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

Before starting to configure the router (taking Vigor2832n for example), you have to connect your devices correctly.

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

(For the detailed information of LED status, please refer to section 3. Panel Explanation)



5. Software Configuration

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

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.



Note

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. Please type "admin/admin" as the Username/Password and click **Login**.

DrayTek **Vigor2832 Series**

Login

Username

Password

Login

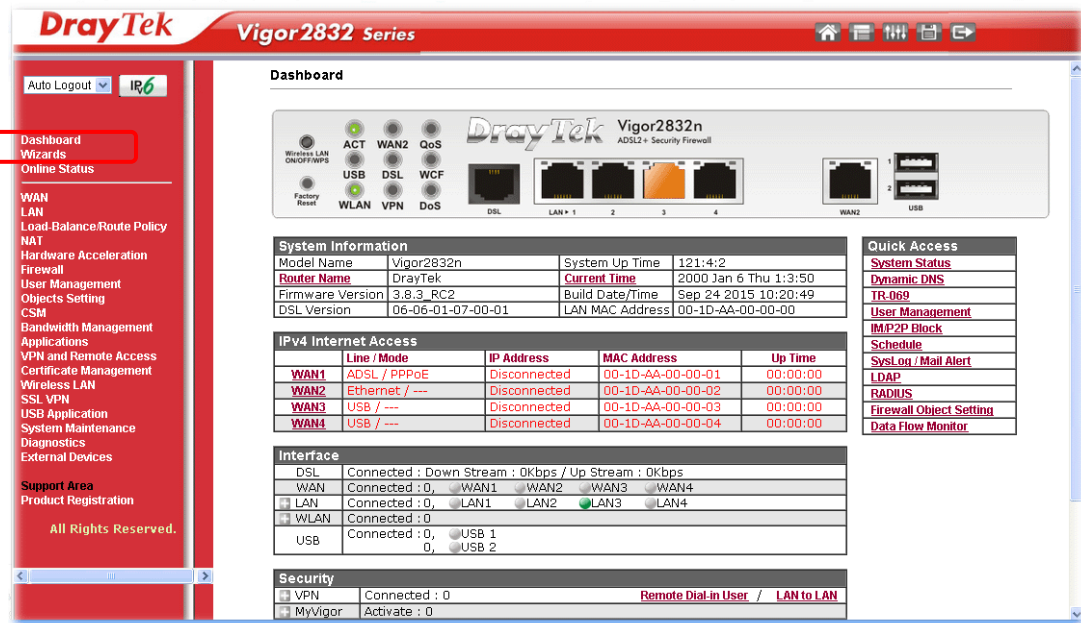
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Note

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

- Now, the Main Screen will pop up. Click Wizards>>Quick Start Wizard.



Note

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

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

Quick Start Wizard

Enter login password

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

Old Password

New Password

Confirm Password

5. On the next page as shown below, please select the WAN interface (WAN 1 to WAN4) that you use. If DSL interface is used, please choose WAN1. If Ethernet interface is used, please choose WAN2. If USB interface is used, choose WAN3 or WAN4. Here we take WAN2 as an example. Then, click **Next** for next step.

Quick Start Wizard

WAN Interface

WAN Interface:	WAN2 ▾
Display Name:	<input type="text"/>
Physical Mode:	Ethernet
Physical Type:	Auto negotiation ▾
VLAN Tag insertion	

- Auto negotiation
- 10M half duplex
- 10M full duplex
- 100M half duplex
- 100M full duplex
- 1000M full duplex



Note

There are four WAN selections available for you to choose. In which WAN3 /WAN4 is selected for 3G USB modem connection.

6. On the next page as shown below, please select the appropriate protocol 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.

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

PPPoE: If you click PPPoE as the protocol, after clicking Next, you will get the following web page. Please manually enter the Username/Password provided by your ISP. Then click Next.

Quick Start Wizard

PPPoE Client Mode

WAN 2
Enter the user name and password provided by your ISP.

Service Name (Optional)	<input type="text"/>
Username	<input type="text"/>
Password	<input type="password"/>
Confirm Password	<input type="password"/>

PPTP/L2TP: if you click PPTP/L2TP, you will get the following page. Please type in all the information originally provided by your ISP. Then click Next for next step.

Quick Start Wizard

PPTP Client Mode

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

Username	<input type="text"/>
Password	<input type="password"/>
Confirm Password	<input type="password"/>
WAN IP Configuration	
<input type="radio"/> Obtain an IP address automatically	
<input checked="" type="radio"/> Specify an IP address	
IP Address	<input type="text"/>
Subnet Mask	<input type="text"/>
Gateway	<input type="text"/>
Primary DNS	<input type="text" value="8.8.8.8"/>
Second DNS	<input type="text" value="8.8.4.4"/>
PPTP Server	<input type="text"/>

Static IP: if you click Static IP, you will get the following page. Please type in the IP address information originally provided by your ISP. Then click Next for next step.

Quick Start Wizard

Static IP Client Mode

WAN 2
Enter the Static IP configuration provided by your ISP.

WAN IP	<input type="text" value="172.16.3.102"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Gateway	<input type="text" value="172.16.3.1"/>
Primary DNS	<input type="text" value="8.8.8.8"/>
Secondary DNS	<input type="text" value="8.8.4.4"/> (optional)

DHCP: if you click DHCP, you will get the following page. 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	<input type="text"/>	(optional)
MAC	<input type="text" value="00"/> <input type="text" value="-1D"/> <input type="text" value="-AA"/> <input type="text" value="-00"/> <input type="text" value="-00"/> <input type="text" value="-02"/>	(optional)

7. Now you can see the following screen. It indicates that the setup is complete. Different types of connection modes will have different summary. Click **Finish** and then restart the router. Afterward, you will enjoy surfing on the Internet.

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.

< Back

Next >

Finish

Cancel

6. Customer Service

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