# Vigor2135 Series Gigabit Broadband Router Quick Start Guide (for RF Model)

Version: 1.6

Firmware Version: V4.4.3.2

(For future update, please visit DrayTek web site)

Date: May 9, 2024

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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 be 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.
- Do not power off the router when saving configurations or firmware upgrades. It may damage the data in a flash. Please disconnect the Internet connection on the router before powering it off when a TR-069/ ACS server manages the router.
- 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 tore-store 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.



# **Declaration of Conformity**

Hereby, DrayTek Corporation declares that the equipment type Vigor2135 is in compliance with Radio Equipment Directive 2014/53/EU, Low Voltage Directive 2014/35/EU and RoHS 2011/65/EU.

The full text of the EU Declaration of Conformity is available at the following internet address:

https://fw.draytek.com.tw/Vigor2135/Document/CE/

Manufacturer: DrayTek Corp.

Address: No.26, Fushing Rd., Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan

Product: Vigor2135 Wireless Series Frequency Information for Europe area:

<b>—————————————————————————————————————</b>	
2.4GHz WLAN	For ac model, 2400MHz - 2483MHz, max. TX power: 19.79dBm *1
	For ax model, 2400MHz - 2483MHz, max. TX power: 19.81dBm *1
5GHz WLAN	For ac model,
	5150MHz - 5350MHz, max. TX power: 22.74dBm *2
	5470MHz - 5725MHz, max. TX power: 29.88dBm *2
	For ax model,
	5150MHz - 5350MHz, max. TX power: 22.70dBm *2
	5470MHz - 5725MHz, max. TX power: 29.47dBm *2
n.	Requirements in AT/BE/BG/CZ/DK/EE/FR/DE/IS/IE/IT/EL/ES/
	CY/LV/LI/LT/LU/HU/MT/NL/NO/PL/PT/RO/SI/SK/TR/FI/SE/CH/HR/UK(NI).
	5150MHz~5350MHz is for indoor use only.

(\*1: for 2.4GHz WLAN model; \*2: for 5GHz WLAN model)

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



# **Declaration of Conformity**

Hereby, DrayTek Corporation declares that the equipment type Vigor2135 is in compliance with the Radio Equipment Regulations 2017 (SI 2017 No.1206, The Electrical Equipment (Safety) Regulations 2016 (SI 2016 No.1101), and The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (SI 2012 No. 3032).

The full text of the UKCA Declaration of Conformity is available at the following internet address:

https://fw.draytek.com.tw/Vigor2135/Document/CE/

Manufacturer: DrayTek Corp.

Address: No. 26, Fushing Rd., Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan

Product: Vigor2135 Wireless Series

Importer: UK - CMS Distribution Limited, 15 Worship Street, London, EC2A 2DT

Ireland - CMS Distribution Limited, Bohola Road, Kiltimagh, Co Mayo, Ireland

#### Frequency Information for UK area:

2.4GHz WLAN	For ac model, 2400MHz - 2483MHz, max. TX power: 19.79dBm *1
	For ax model, 2400MHz - 2483MHz, max. TX power: 19.81dBm *1
5GHz WLAN	For ac model,
	5150MHz - 5350MHz, max. TX power: 22.74dBm *2
	5470MHz - 5725MHz, max. TX power: 29.88dBm
	For ax model,
	5150MHz - 5350MHz, max. TX power: 22.70dBm *2
	5470MHz - 5725MHz, max. TX power: 29.47dBm
	Requirements in UK. 5150MHz~5350MHz is for indoor use only.

(\*1: for 2.4GHz WLAN model; \*2: for 5GHz WLAN model)

This product is designed for 2.4GHz /5GHz WLAN network use in the UK & Ireland.

# **External Power Supply ErP Information**

 ${}^{\star}$ The external power supply used for each product will be model dependent.

		1	2	3	4	5	6	7	8	9	10	11	12
Α	Manufactur er	CWT	CWT	CWT	CWT	CWT	APD	APD	APD	APD	MOSO	MOSO	MOSO
В	Address	No. 222, Sec. 2, Nankan Rd., Lujhu Township, Taoyuan County 338, Taiwan	No.5, Lane 83, Lung-Sou St., Taoyuan City 330, Taiwan	Lung-Sou St.,	Lung-Sou St.,	Lung-Sou St.,	Guanwai Xiaobaimang Songbai Road, Nanshan District, 518108 Shenzhen, Guangdong, China	Guanwai Xiaobaimang Songbai Road, Nanshan District, 518108 Shenzhen, Guangdong, China	Sangtai Industrial Park, Guanwai Xiaobaimang Songbai Road, Nanshan District, 518108 Shenzhen, Guangdong, China				
С	Model	2ABB012F UK	2ABB018F UK	2ABL024F UK	2ABL030F UK	2ABN036F UK	WA-12M12FG	WB-18D12FG	WA-24Q12FG	WA-36A12FG	MS- V2000R120- 024Q0-GB	MSS- V2500WR120- 030E0-GB	V30-V3000R12 0-036T0-GB
	identifier	2ABB012F EU	2ABB018F EU	2ABL024F EU	2ABL030F EU	2ABN036F EU	WA-12M12FK	WB-18D12FK	WA-24Q12FK	WA-36A12FK	MS- V2000R120- 024Q0-DE	MSS- V2500WR120- 030E0-DE	V30-V3000R12 0-036T0-DE
D	Input voltage	100~240V	100-240V	100-240V	100-240V	100-240V	100-240V	100-240V	100-240V	100-240V	100-240V	100~240V	100-240V
E	Input AC frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
	Output voltage DC	12.0V	12.0V	12.0V	12.0V	12.0V	12.0V	12.0V	12.0V	12.0V	12.0V	12.0V	12.0V
F	Output current	1.0A	1.5A	2.0A	2.5A	3.0A	1.0A	1.5A	2.0A	3.0A	2.0A	2.5A	3.0A
G	Output power	12.0W	18.0W	24.0W	30.0W	36.0W	12.0W	18.0W	24.0W	36.0W	24.0W	30.0W	36.0W
Н	Average active efficiency	84.9%	86.2%	87.6%	87.8%	89.8%	83.7%	85.4%	88.6%	88.2%	87.8%	89.5%	89.3%
I	Efficiency at low load 10%	73.6%	78.0%	81.3%	83.3%	83.7%	74.5%	80.5%	86.4%	85.4%	85.4%	84.7%	87.7%
J	No-load power consumptio n	0.07W	0.07W	0.07W	0.07W	0.07W	0.07W	0.10W	0.07W	0.10W	0.10W	0.08W	0.10W

For more update, please visit www.draytek.com.



# **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.

#### **RF Exposure Warning**

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

	Company name	ABP International Inc.			
USA Local Representative	Address	13988 Diplomat Drive Suite 180 Dallas TX 75234			
	ZIP Code	75234	E-mail	itadmin@abptech.com	
Roproscritative	Contact Person	Mr. Henry N Castillo	Tel.	(972)831-1600 140	

#### Caution

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

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



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# 1. Package Content

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



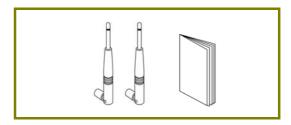
Vigor2135ac series



Vigor2135ax

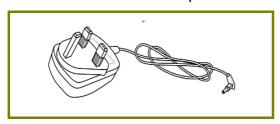


RJ-45 Cat-5 Ethernet Cable

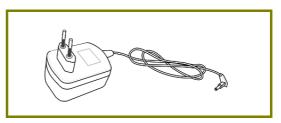


Antenna (for Vigor2135ac series) & Quick Start Guide

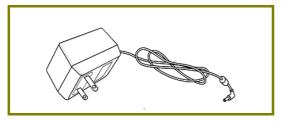
The type of the power adapter depends on the country that the router will be installed. \* The maximum power consumption is *18 Watts*.



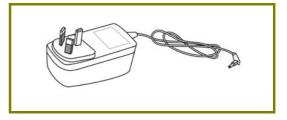
**UK-type Power Adapter** 



**EU-type Power Adapter** 



USA/Taiwan-type Power Adapter



AU/NZ-type Power Adapter



Note

Remove the protective film from the router before use to ensure ventilation.

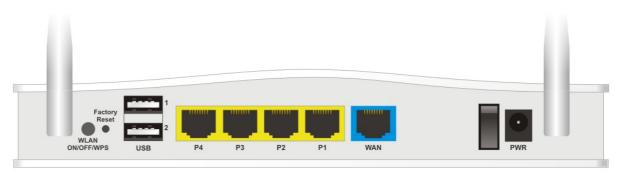
# 2. Panel Explanation

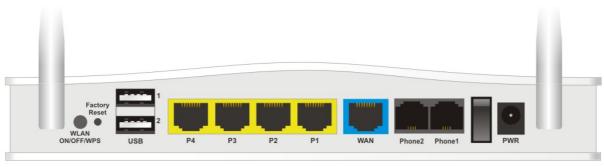
# 2.1 Vigor2135ac, Vigor2135Vac, Vigor2135FVac

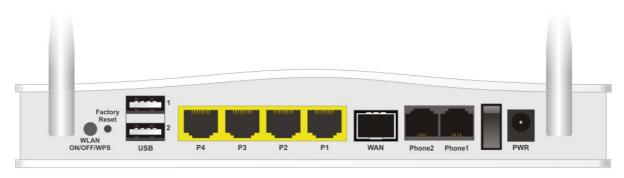


LED	Status	Explanation
<u> </u>	Blinking	The router is powered on and running normally.
(Activity)	Blinking	When both ACT and WLAN LEDs blink quickly, it
` ','	(quickly)	means the WPS function is enabled and active. The
		system is waiting for a wireless station of
		connection.
	Off	The router is powered off.
047	On	Internet connection is ready.
WAN	Blinking	The data is transmitting.
VVAIN	Off	Internet connection is not ready.
1, 2	On	The phone connected to this port is off-hook.
	Off	The phone connected to this port is on-hook.
(for "V" model)	Blinking	A phone call comes.
2.43 53	On	Wireless access point is ready.
-G. G.	Blinking	Ethernet packets are transmitting over wireless LAN.
WLAN	Blinking	When both ACT and WLAN LEDs blink quickly, it
	(quickly)	means the WPS function is enabled and active. The
		system is waiting for a wireless station of
		connection.
	Off	The WLAN function is inactive.
	On	The LAN port is connected.
	Blinking	The data is transmitting.
~ LANIA /2 /2 /4	Off	The LAN port is disconnected.
LAN1/2/3/4	0:-	A LICD devices in account of and active
USB USB	On	A USB device is connected and active.
	Blinking	The data is transmitting.

# **Connectors**







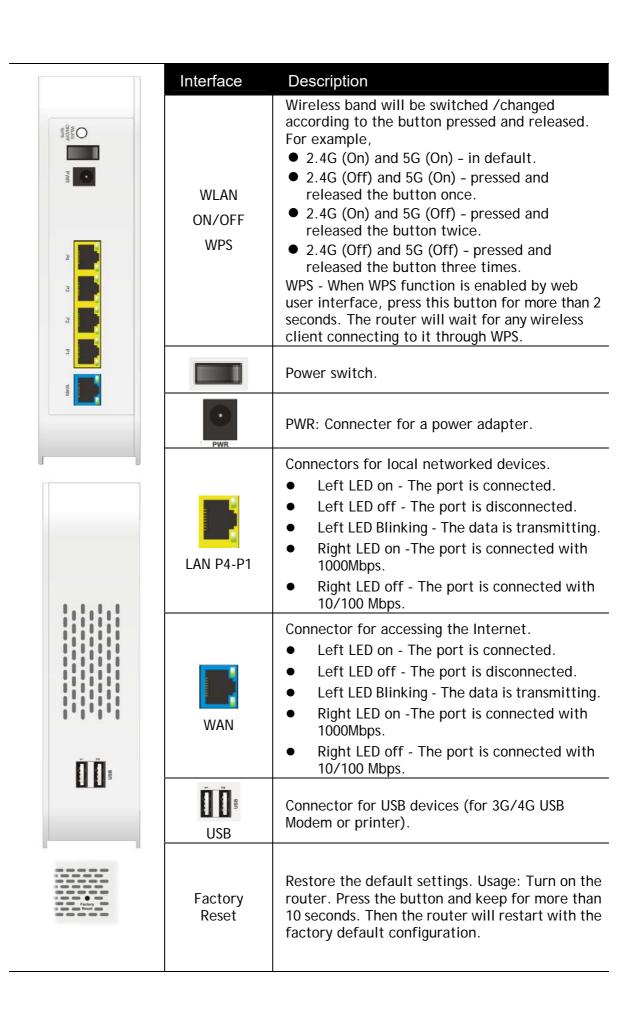
Interface	Description
Wireless LAN ON/OFF/WPS	WLAN On - Press the button and release it within 2 seconds. When the wireless function is ready, the green LED will be on.
	WLAN Off - Press the button and release it within 2 seconds to turn off the WLAN function. When the wireless function is not ready, 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.
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.
USB1~USB2	Connector for a USB device (USB Modem or printer).
P4~P1	Connectors for local networked devices.

WAN	Connector for remote networked devices (by Ethernet cable).
WAN (FVac)	Connector for fiber connection for accessing the Internet.
Phone2/Phone1 (for "V" model)	Connector of analog phone for VoIP communication.
ON/OFF	Power switch.
PWR	Connector for a power adapter.

# 2.2 Vigor2135ax



LED	Status	Explanation		
als	Off	The system is not ready or is failed.		
0	Blinking	The system is ready and can work normally.		
ACT	Blinking with WLAN	WPS is enabled and waiting for the response from the wireless client.		
013	On	Internet connection is ready.		
22	Blinking	The data is transmitting.		
WAN	Off	Internet connection is not ready.		
5	Off	Wireless function is not ready.		
99	On	Wireless function is ready.		
WLAN	Blinking	Data is transmitting (sending/receiving).		
	Blinking with WLAN	WPS is enabled and waiting for the response from the wireless client.		
-(1:)	On	A USB device is connected and active.		
USB	Blinking	The data is transmitting.		



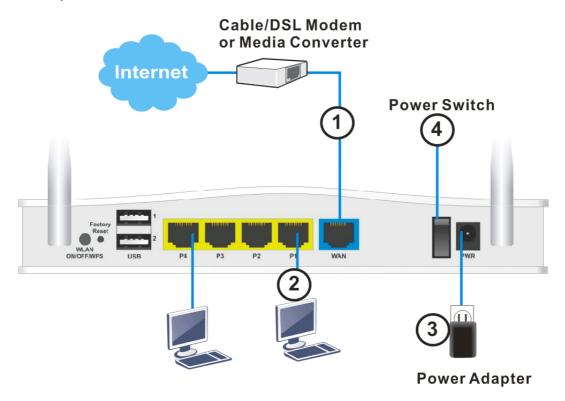
# 3. Hardware Installation

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

#### 3.1 Network Connection for ac series

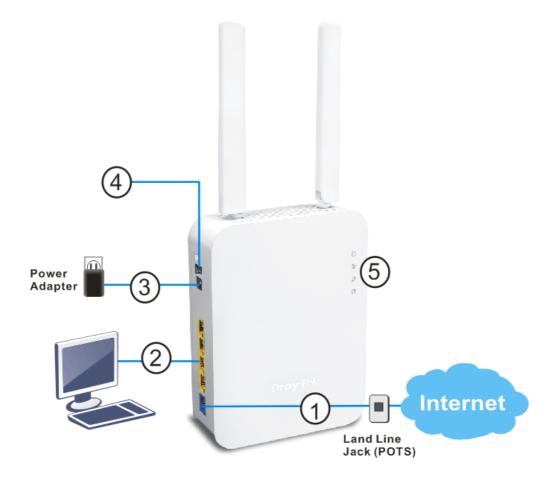
Before starting to configure the router, you have to connect your devices correctly. Here we take Vigor2135ac as an example.

- 1. Connect the cable Modem/DSL Modem/Media Converter to any WAN port of router with Ethernet cable (RJ-45).
- 2. Connect one port of 4-port switch to your computer with a RJ-45 cable. This device allows you to connect 4 PCs directly.
- 3. Connect one end of the power cord to the power port of this device. Connect the other end to the wall outlet of electricity.
- 4. Connect detachable antennas to the router. Power on the router.
- Check the ACT and WAN, LAN LEDs to assure network connection.
   (For the detailed information of LED status, please refer to section 2. Panel Explanation)



# 3.2 Network Connection for ax series

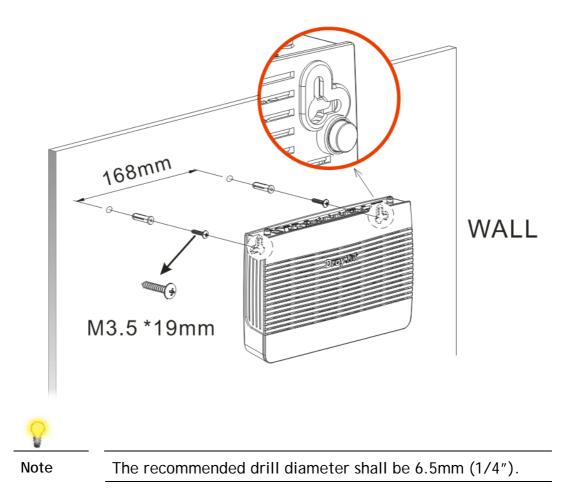
- 1. Connect the cable Modem/DSL Modem/Media Converter to any WAN port of router with Ethernet cable (RJ-45).
- 2. Connect one port of 4-port switch to your computer with a RJ-45 cable. This device allows you to connect 4 PCs directly.
- 3. Connect one end of the power cord to the power port of this device. Connect the other end to the wall outlet of electricity.
- 4. Power on the router.
- 5. Check the ACT and WAN LEDs to assure network connection.



# 3.3 Wall-Mounted Installation for ac series

Vigor2135 series has keyhole type mounting slots on the underside.

- 1. Drill two holes on the wall. The distance between the holes shall be 168mm.
- 2. Fit screws into the wall using the appropriate type of wall plug.
- 3. With the screws installed, the router can be slotted into place.

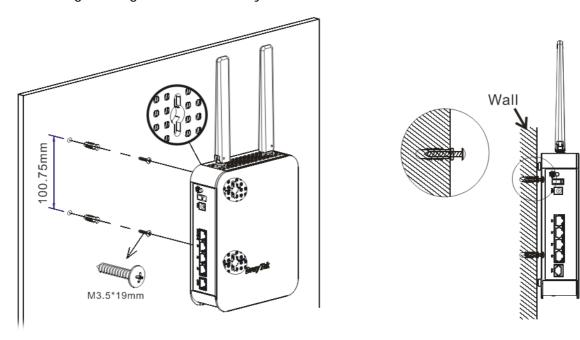


4. When you finished about procedure, the router has been mounted on the wall firmly.

# 3.4 Wall-Mounted Installation for ax series

Vigor router has keyhole type mounting slots on the underside.

- 1. Drill two holes on the wall. The distance between the holes shall be 100.75mm. The recommended drill diameter shall be 6.5mm (1/4").
- 2. Fit screws into the wall using the appropriate type of screw plug.
- 3. Hang the Vigor router directly onto the screws.



# 4. 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 section - Trouble Shooting in the User's 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.



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

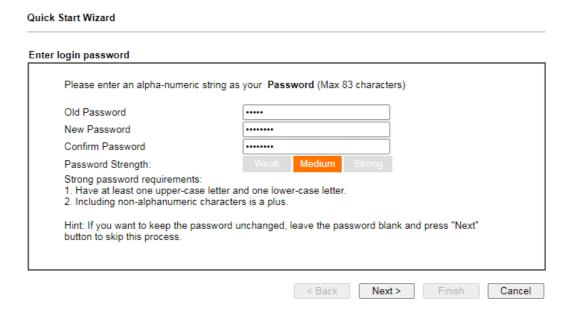




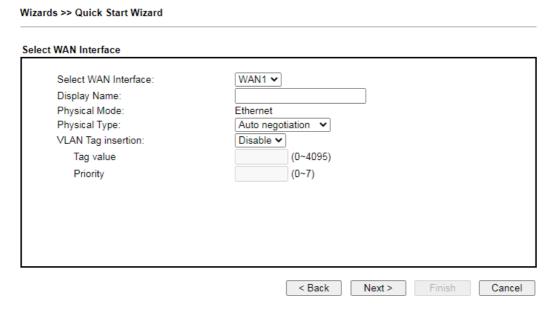
Note

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

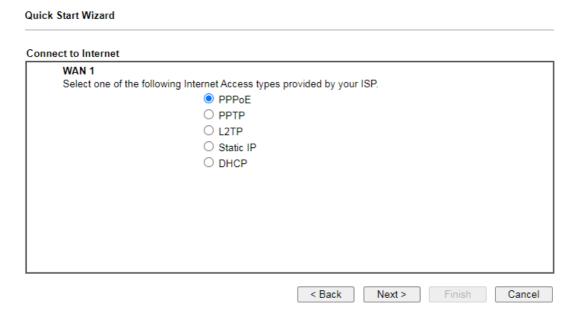
4. Enter the login password on the field of **New Password** and retype it on the field of **Confirm Password**. Then click **Next** to continue.



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



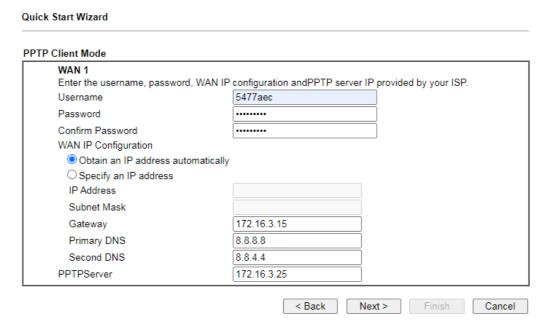
6. On the next page as shown below, please select the appropriate protocol according to the information from your ISP. For example, you should select PPPoE mode if the ISP provides you PPPoE interface. Then click Next for next step.



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.

DE Client Mode	
WAN 1	1
Enter the user name and passwo	
Service Name (optional)	CHT
Username	84005657@hinet.net
Password	•••••
Confirm Password	•••••

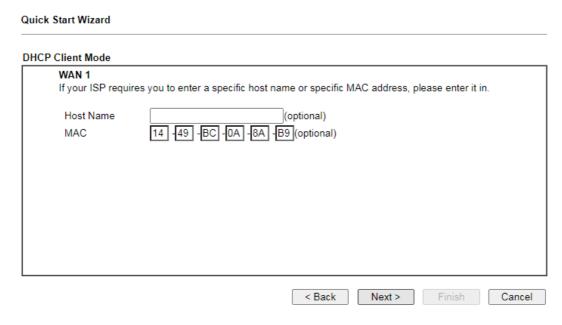
**PPTP/L2TP**: if you click PPTP/L2TP, you will get the following page. Please type in all the information originally provided by your ISP. Then click **Next** for next step.



**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.

tic IP Client Mode			
WAN 1 Enter the Static IP configura	tion provided by your ISP.		
WAN IP	192.168.3.102		
Subnet Mask	255.255.255.0		
Gateway	192.168.3.1		
Primary DNS	8.8.8.8		
Secondary DNS	8.8.4.4	(optional)	
	< Back	Next > Finish	Canc

**DHCP**: if you click DHCP, you will get the following page. Simply click **Next** to continue.



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.

# Please confirm your settings: WAN Interface: WAN1 Physical Mode: Ethernet Physical Type: AUTO 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

# 5. 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.

#### Be a Registered Owner

Web registration is preferred. You can register your Vigor router via https://myvigor.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.

https://www.draytek.com