# **Dray** Tek

# Vigor2766 Series

**G.Fast Security Router** 



QUICK START GUIDE (RF MODEL)

# Vigor2766 Series G. Fast Security Router Quick Start Guide (For RF Model)

Version: 1.1

Firmware Version: V4.4.2

(For future update, please visit DrayTek web site)

Date: February 1, 2023

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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 +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 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 radio equipment type Vigor2766 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

https://fw.draytek.com.tw/Vigor2766/Document/CE/

Manufacturer: DrayTek Corp.

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

Product: Vigor2766 Wireless Series

Frequency Information for Europe area:

2.4GHz WLAN	For ac model, 2400MHz - 2483 MHz, max. TX power: 19.79dBm *1 For ax model, 2400MHz - 2483 MHz, max. TX power: 19.81dBm *1
5GHz WLAN	For ac model, 5150MHz - 5350 MHz, max. TX power: 22.74dBm
	Requirements in AT/ BE/ BG/ CZ/ DZ/ 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. 5150MHz~5350MHz is for indoor use only.

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

This product is designed for 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.

#### **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 Internationa	l Inc.	
USA Local	Address	13988 Diplomat D	180 Dallas TX 75234	
Representative	ZIP Code	75234	E-mail	rmesser@abptech.com
	Contact Person	Mr. Robert Messer	Tel.	19728311600

#### 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.



More update, please visit www.draytek.com.

\*The external power supply used for each product will be model dependent.

		1	2	3	4	5	6	7	8	9
_	Manufactures	CVA/T	_				_	ADD.	_	-
Α_	Manufacturer	CWT	CWT	CWT	CWT	CWT	APD	APD	APD	APD
В	Address	No. 222, Sec.	No. 222, Sec.	No. 222, Sec.		No. 222, Sec.				No.5, Lane 83,
		2, Nankan	2, Nankan	2, Nankan	2, Nankan	2, Nankan	Lung-Sou St.,	Lung-Sou St.,	Lung-Sou St.,	Lung-Sou St.,
		Rd., Lujhu	Rd., Lujhu	Rd., Lujhu	Rd., Lujhu	Rd., Lujhu	Taoyuan City	Taoyuan City	Taoyuan City	Taoyuan City
		Township,	Township,	Township,	Township,	Township,	330, Taiwan	330, Taiwan	330, Taiwan	330, Taiwan
		Taoyuan	Taoyuan	Taoyuan	Taoyuan	Taoyuan				
		County 338,	County 338,	County 338,	County 338,	County 338,				
		Taiwan	Taiwan	Taiwan	Taiwan	Taiwan				
С	Model identifier	2ABB012F UK	2ABB018F UK	2ABL024F UK	2ABL030F UK	2ABN036F UK	WA-12M12FG	WB-18D12FG	WA-24Q12FG	WA-36A12FG
		2ABB012F EU	2ABB018F EU	2ABL024F EU	2ABL030F EU	2ABN036F EU	WA-12M12FK	WB-18D12FK	WA-24Q12FK	WA-36A12FK
D	Input voltage	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
	Output voltage DC	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
G	Output power	12.0W	18.0W	24.0W	30.0W	36.0W	12.0W	18.0W	24.0W	36.0W
Н	Average active	84.9%	86.2%	87.6%	87.8%	89.8%	83.7%	85.4%	88.6%	88.2%
	efficiency									
I	Efficiency at low load	73.6%	78.0%	81.3%	83.3%	83.7%	74.5%	80.5%	86.4%	85.4%
	10%									
J	No-load power	0.07W	0.07W	0.07W	0.07W	0.07W	0.07W	0.10W	0.07W	0.10W
	consumption									

External power supply (Power Adapter) information. For more update, please visit www.draytek.com.

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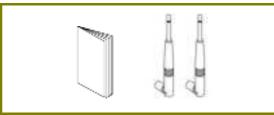
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# 1. Package Content

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



Vigor2766ac series & Vigor2766ax



Quick Start Guide & Antenna for ac series



RJ-45 Cable (Ethernet)



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

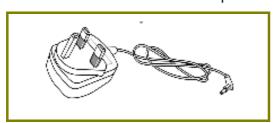


RJ-11 to RJ-45 Cable (Annex B)

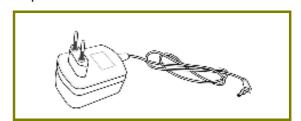


RJ-45 to RJ-45 Cable (Annex B)

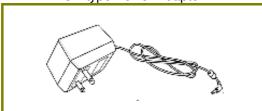
The type of the power adapter depends on the country that the router will be installed. \* The maximum power consumption is *17-23 Watt*.



**UK-type Power Adapter** 



**EU-type Power Adapter** 



USA/Taiwan-type Power Adapter



AU/NZ-type Power Adapter

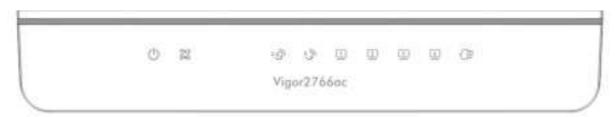


Note

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

# 2. Panel Explanation

# 2.1 Vigor2766ac



LED	Status		Explanation
415	Blinking		The router is powered on and running normally.
(Activity)	Off		The router is powered off.
0.3	Orange	On	The DSL link up, waiting for the Internet connection.
(DSL)		Blinking	Slowly - The DSL connection is ready for training.  Quickly - The DSL connection is synchronizing.
	Green	On	The router is ready to access to the Internet through DSL link.
		Blinking	The data is transmitting.
2.45	On		The wireless access point is ready.
(Wireless LAN	Blinking		The data is transmitting via wireless connection based on the rate of 2.4GHz.
On/ Off/ WPS)	Blinking (quickly)		When both ACT and WLAN LEDs blink quickly, it means the WPS function is enabled and active. The system is waiting for a wireless station of connection.
	Off		The wireless access point is turned off.
(Wireless LAN On/ Off/ WPS)	On		The wireless access point is ready.
	Blinking		The data is transmitting via wireless connection based on the rate of 5GHz.
	Blinking (quickly)		When both ACT and WLAN LEDs blink quickly, it means the WPS function is enabled and active. The system is waiting for a wireless station of connection.
	Off		The wireless access point is turned off.
	On		The LAN port is connected.
<u> </u>	Blinking		The data is transmitting.
(LAN1/ 2/ 3/ 4)	Off		The LAN port is disconnected.
(LICE)	On		A USB device is connected and active.
(USB)	Blinking		The data is transmitting.

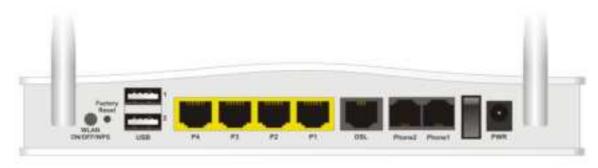


Interface	Description
WLAN ON/ OFF/ WPS	WLAN On - Press the button and release it within 2 seconds. When the wireless function is ready, the green LED will be on.
	WLAN Off - Press the button and release it within 2 seconds to turn off the WLAN function. When the wireless function is not ready, the LED 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 (for 3G/4G USB Modem or printer).
P1~P4	Connectors for local networked devices.
DSL	Connector for accessing the Internet.
I/ O	Power Switch.
PWR	Connector for a power adapter.

# 2.2 Vigor2766Vac



LED	Status		Explanation			
ds	Blinking		The router is powered on and running normally.			
(Activity)	Off		The router is powered off.			
013		On	The DSL link up, waiting for the Internet connection.			
GL	Orange	Blinking	Slowly - The DSL connection is ready for training.			
(DSL)		Difficing	Quickly - The DSL connection is synchronizing.			
	Green	On	The router is ready to access to the Internet through DSL link.			
		Blinking	The data is transmitting.			
	On		The phone connected to this port is off-hook.			
6 6	Off		The phone connected to this port is on-hook.			
	Blinking		A phone call comes.			
2.4	On		The wireless access point is ready.			
(Wireless LAN	Blinking		The data is transmitting via wireless connection based on the rate of 2.4GHz.			
On/ Off/ WPS)	Blinking (quickly)		When both ACT and WLAN LEDs blink quickly, it means the WPS function is enabled and active. The system is waiting for a wireless station of connection.			
	Off		The wireless access point is turned off.			
5 3	On		The wireless access point is ready.			
(Wireless LAN	Blinking		The data is transmitting via wireless connection based on the rate of 5GHz.			
On/ Off/ WPS)	Blinking (d	quickly)	When both ACT and WLAN LEDs blink quickly, it means the WPS function is enabled and active. The system is waiting for a wireless station of connection.			
	Off		The wireless access point is turned off.			
	On		The LAN port is connected.			
1 4	Blinking		The data is transmitting.			
~ (LAN1/ 2/ 3/ 4)	Off		The LAN port is disconnected.			
(II)	On		A USB device is connected and active.			
(USB)	Blinking		The data is transmitting.			



Description
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.
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.
Connector for a USB device (for 3G/4G USB Modem or printer).
Connectors for local networked devices.
Connector for accessing the Internet.
Connector of analog phone for VoIP communication.
Power Switch.
Connector for a power adapter.

# 2.3 Vigor2766ax



LED	Status		Explanation
dla	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	The DSL link up, waiting for the Internet
DSL	Orange	Blinking	connection. Slowly - The DSL connection is ready for training. Quickly - The DSL connection is synchronizing.
		On	The router is ready to access to the Internet
Gree	Green	Blinking	through DSL link.
	Ott		The data is transmitting.
90	-		Wireless function is not ready.
	On		Wireless function is ready.
WLAN	Blinking		Data is transmitting (sending/receiving).
	Blinking v	vith ACT	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.

	WLAN ON/ OFF WPS	<ul> <li>Description</li> <li>Wireless band will be switched / changed according to the button pressed and released. For example,</li> <li>● 2.4G (On) and 5G (On) -in default.</li> <li>● 2.4G (Off) and 5G (On) -pressed and released the button once.</li> <li>● 2.4G (On) and 5G (Off) -pressed and released the button twice.</li> <li>● 2.4G (Off) and 5G (Off) -pressed and released the button three times.</li> <li>WPS - When WPS function is enabled by web user interface, press this button for more than 2 seconds. The router will wait for any wireless client connecting to it through WPS.</li> </ul>
2		Power switch.
_	- C-40	PWR: Connecter for a power adapter.
1,1,1,1	LAN P4-P1	<ul> <li>Connectors for local networked devices.</li> <li>Left LED on - The port is connected.</li> <li>Left LED off - The port is disconnected.</li> <li>Left LED Blinking - The data is transmitting.</li> <li>Right LED on -The port is connected with 1000Mbps.</li> <li>Right LED off - The port is connected with 10/ 100 Mbps.</li> </ul>
	DSL	Connector for accessing the Internet.
111111	USB	Connector for USB devices (for 3G/4G USB Modem or printer).
OF STATE AND STA	Factory Reset	Restore the default settings. Usage: Turn on the router. Press the button and keep for more than 10 seconds. Then the router will restart with the factory default configuration.

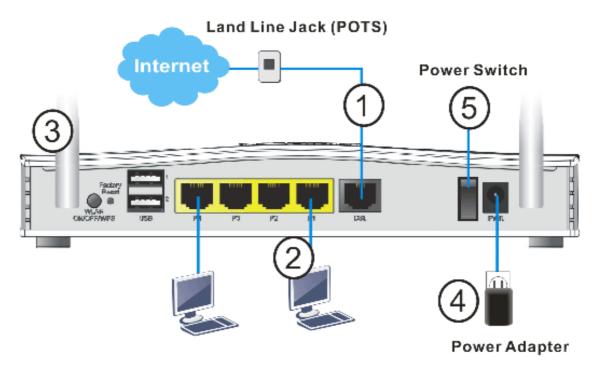
# 3. Hardware Installation

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, you have to connect your devices correctly.

#### 3.1 Network Connection

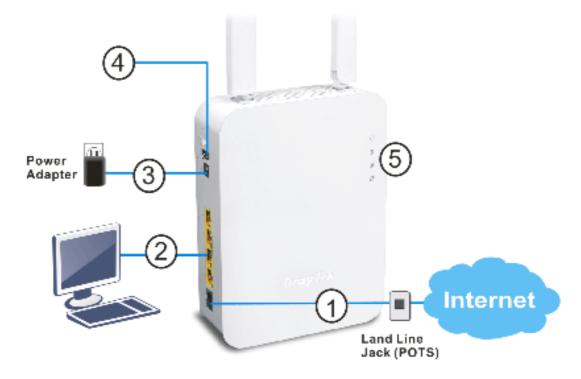
- 1. Connect the DSL interface to the land line jack with a DSL line cable.
- 2. Connect one port of 4-port switch to your computer with a RJ-45 cable. This device allows you to connect 4 PCs directly.
- 3. Connect detachable antennas to the router.
- 4. Connect one end of the power cord to the power port of this device. Connect the other end to the wall outlet of electricity.
- 5. Power on the router.
- 6. Check the ACT and DSL, LAN LEDs to assure network connection.



(For the detailed information of LED status, please refer to section 2.1.)

## 3.2 Network Connection for ax series

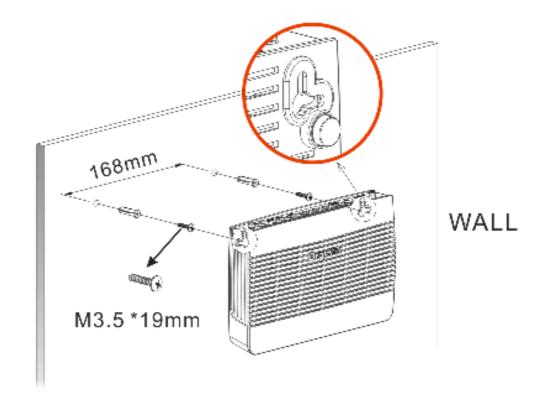
- 1. Connect the DSL interface to the land line jack with a DSL line cable.
- 2. Connect one port of 4-port switch to your computer with a RJ-45 cable. This device allows you to connect 4 PCs directly.
- 3. Connect one end of the power cord to the power port of this device. Connect the other end to the wall outlet of electricity.
- 4. Power on the router.
- 5. Check the ACT and DSL LEDs to assure network connection.



# 3.3 Wall-Mounted Installation

Vigor router 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.





Note

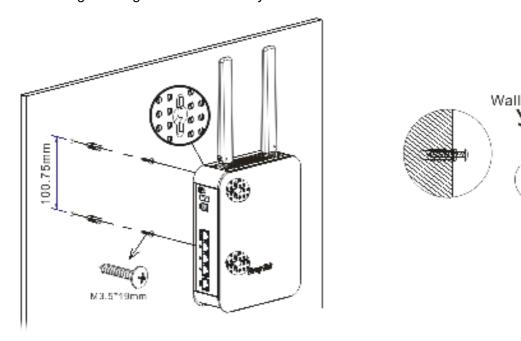
The recommended drill diameter shall be  $6.5 \text{mm} (1/4^{\circ})$ .

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.

Make sure your PC connects to the router correctly.



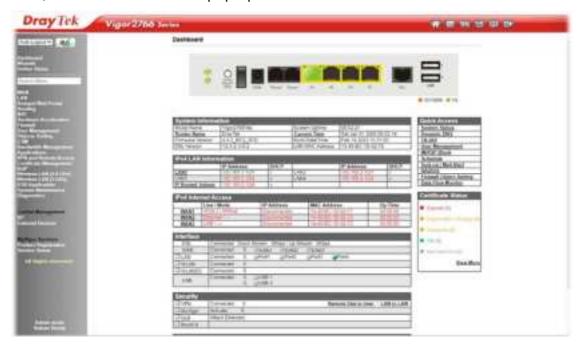
Note

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.

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. Here, we take Vigor2765 series as an example.



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



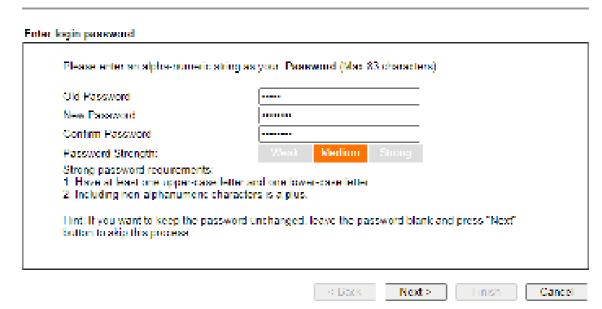


Note

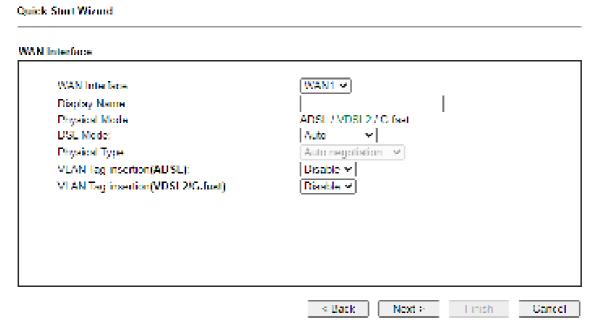
The home page will change slightly in accordance with the router you have.

The first screen of **Quick Start Wizard** is entering login password. After typing the password, please click **Next**.

#### Quick Start Wizard



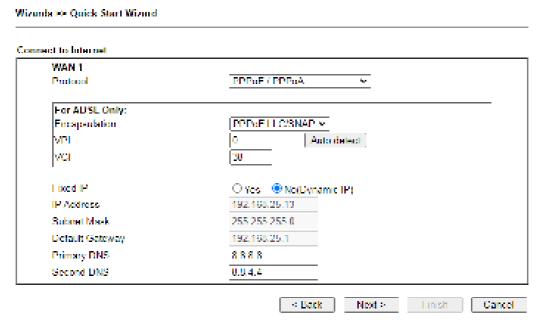
On the next page as shown below, please select the WAN interface that you use. If DSL interface is used, please choose WAN1; if Ethernet interface is used, please choose WAN2; if 3G USB modem is used, please choose WAN3. Then click **Next** for next step. WAN1, WAN2 and WAN3 will bring up different configuration page. Here, we take **WAN1** (ADSL/VDSL2/G.fast) as an example.



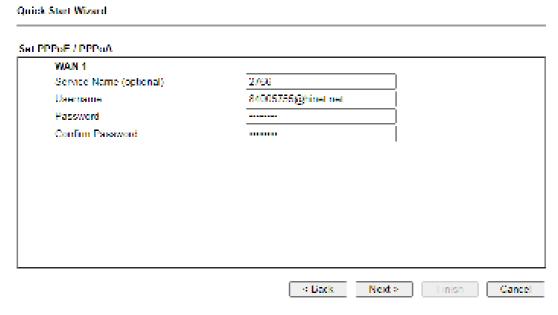
On the next page as shown below, please select the appropriate protocol **according to the information from your ISP**. For example, you should select PPPoE mode if the ISP provides you PPPoE interface. Then click **Next** for next step.

#### PPPoE/PPPoA

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



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



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

Please confirm your settings: WWN Interface: W/MH ADSI 7VDSI 27 G fast Physical Mode VPI: 38 Will Protocol / Lincapsulation: PPP6A//VCMUX Fixed IP No Primary DNS: 0.0.0.0Secondary DNS 8844 K 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.

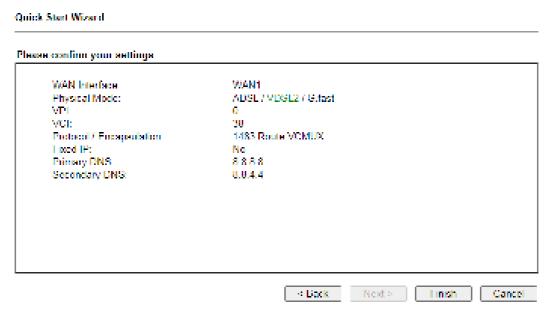
Quick Start Wizard

## MPoA / Static or Dynamic IP

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

et to Internet	
WAN 1 Protocol	MPoA / Static or Dynamic IP 😪
For AUSL Only:	
Encapsulation	1483 Bridged IP LLC 💮 😾
MPI	O Autordetect
va	30
Local IP	○ Yes ● Ne(Dynamic IP)
IP Address	192.160.25.13
Subnet Mask	255 258 258 0
Default Gateway	192.160.25.1
Primary DNS	8.8.8
Second DNS	0.0.4.4

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



- 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.

# 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