

# DrayTek

## Vigor2866 Series

### G.Fast Security Firewall



QUICK START GUIDE (WIRED MODEL)

V1.3

# Vigor2866

## G.Fast Security Firewall

### Quick Start Guide (for Wired Model)

Version: 1.3

Firmware Version: 4.4.2

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

Date: June 27, 2023

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## Safety Instructions and Approval

<b>Safety Instructions</b>	<ul style="list-style-type: none"><li>● Read the installation guide thoroughly before you set up the router.</li><li>● 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.</li><li>● Do not place the router in a damp or humid place, e.g. a bathroom.</li><li>● Do not stack the routers.</li><li>● The router should be used in a sheltered area, within a temperature range of +5 to +40 Celsius.</li><li>● 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.</li><li>● Do not deploy the cable for LAN connection outdoor to prevent electronic shock hazards.</li><li>● 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.</li><li>● Keep the package out of reach of children.</li><li>● When you want to dispose of the router, please follow local regulations on conservation of the environment.</li></ul>
<b>Warranty</b>	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.



EU Declaration of Conformity

We DrayTek Corp. , office at No.26, Fushing Rd, Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan, declare under our sole responsibility that the product

- Product name: VDSL2 Security Firewall
- Model number: Vigor2866
- Manufacturer: DrayTek Corp.
- Address: No.26, Fushing Rd., Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan

is in conformity with the relevant Union harmonisation legislation:

EMC Directive 2014/30/EU, Low Voltage Directive 2014/35/EU and RoHS 2011/65/EU with reference to the following standards

Standard	Version / Issue date
EN 55032	2015+AC:2016 class B
EN 61000-3-2	2014 Class A
EN 61000-3-3	2013
EN 55035	2017+A11:2020
EN 62368-1	2014+A11:2017
EC No. 1275/2008	2008

*Calvin Ma*

Hsinchu  
(Place)

26th May, 2020  
(Date)

Calvin Ma / President .  
(Legal Signature)



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- Model number: Vigor2866
- Manufacturer: DrayTek Corp.
- Address: No.26, Fushing Rd, Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan
- Importer: CMS Distribution Ltd: Bohola Road, Kiltimagh, Co Mayo, Ireland

is in conformity with the relevant UK Statutory Instruments:

The Electromagnetic Compatibility Regulations 2016 (SI 2016 No.1091), 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) with reference to the following standards:

Standard	Version / Issue date
EN 55032	2015+AC:2016 class B
EN 61000-3-2	2014 Class A
EN 61000-3-3	2013
EN 55035	2017+A11:2020
EN 62368-1	2014+A11:2017
EC No. 1275/2008	2008

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(Legal Signature)



## 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.

USA Local Representative	Company name	ABP International Inc.		
	Address	13988 Diplomat Drive Suite 180 Dallas TX 75234		
	ZIP Code	75234	E-mail	itadmin@abptech.com
	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.

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

## External Power Supply ErP Information

	1	2	3	4	5	6	7	8	9
A Manufacturer	CWT	CWT	CWT	CWT	CWT	APD	APD	APD	APD
B Address	No. 222, Sec. 2, Nankan Rd., Lujhu Township, Taoyuan County 338, Taiwan	No. 222, Sec. 2, Nankan Rd., Lujhu Township, Taoyuan County 338, Taiwan	No. 222, Sec. 2, Nankan Rd., Lujhu Township, Taoyuan County 338, Taiwan	No. 222, Sec. 2, Nankan Rd., Lujhu Township, Taoyuan County 338, Taiwan	No. 222, Sec. 2, Nankan Rd., Lujhu Township, Taoyuan County 338, Taiwan	No.5, Lane 83, Lung-Sou St., Taoyuan City 330, Taiwan	No.5, Lane 83, Lung-Sou St., Taoyuan City 330, Taiwan	No.5, Lane 83, Lung-Sou St., Taoyuan City 330, Taiwan	No.5, Lane 83, Lung-Sou St., Taoyuan City 330, Taiwan
C Model identifier	2ABBO12F UK 2ABBO12F EU	2ABBO18F UK 2ABBO18F EU	2ABLO24F UK 2ABLO24F EU	2ABLO30F UK 2ABLO30F EU	2ABNO36F UK 2ABNO36F EU	WA-12M12FG WA-12M12FK	WB-18D12FG WB-18D12FK	WA-24Q12FG WA-24Q12FK	WA-36A12FG 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
H Average active efficiency	84.9%	86.2%	87.6%	87.8%	89.8%	83.7%	85.4%	88.6%	88.2%
I Efficiency at low load 10%	73.6%	78.0%	81.3%	83.3%	83.7%	74.5%	80.5%	86.4%	85.4%
J No-load power consumption	0.07W	0.07W	0.07W	0.07W	0.07W	0.07W	0.10W	0.07W	0.10W

External power supply (Power Adapter) information. For more update, please visit [www.draytek.com](http://www.draytek.com).



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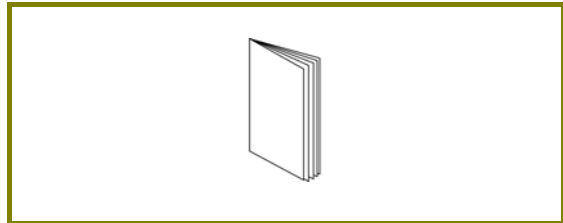
<b>1. Package Content .....</b>	<b>1</b>
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# 1. Package Content

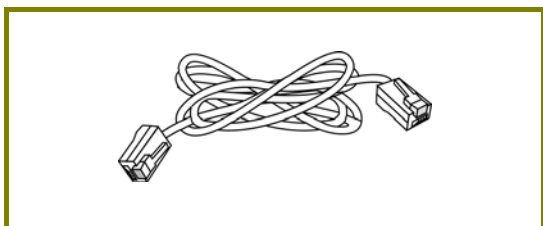
Take a look at the package content. If there is anything missed or damaged, please contact DrayTek or dealer immediately.



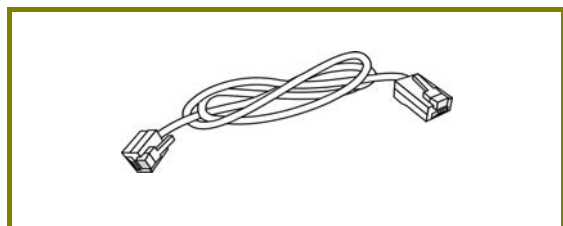
**Vigor Router**



**Quick Start Guide**

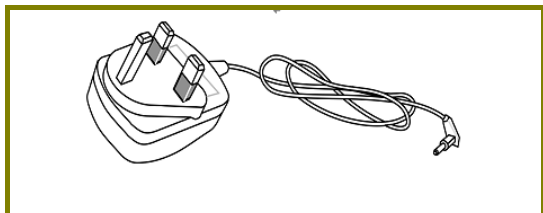


**RJ-45 Cable (Ethernet)**

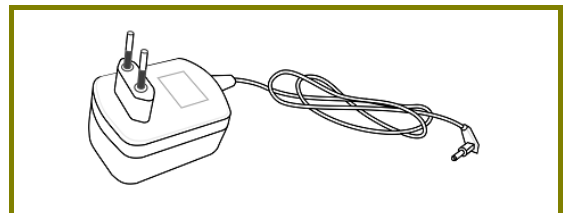


**RJ-11 to RJ-11 Cable or RJ-11 to RJ-45 Cable**

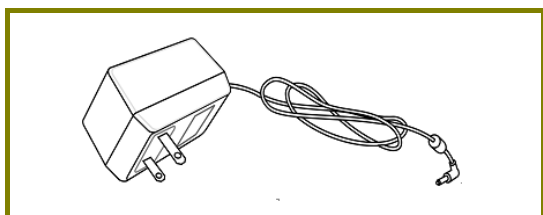
The type of the power adapter depends on the country that the router will be installed. \* The maximum power consumption is *22 Watt*.



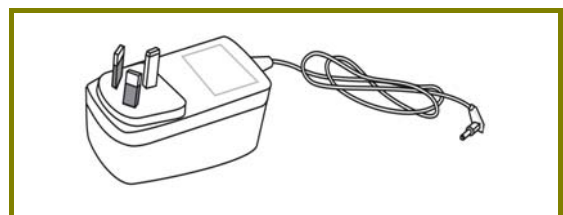
**UK-type Power Adapter**



**EU-type Power Adapter**

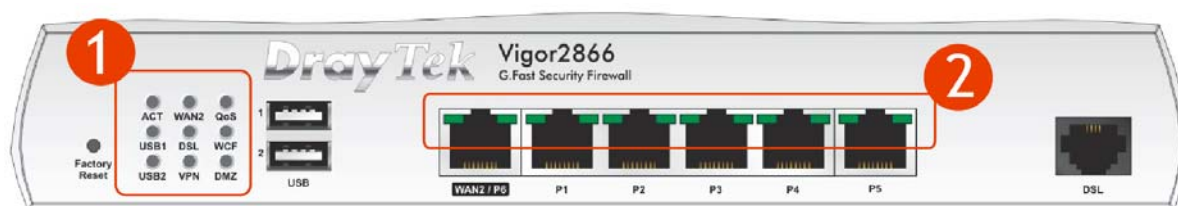


**USA/Taiwan-type Power Adapter**



**AU/NZ-type Power Adapter**

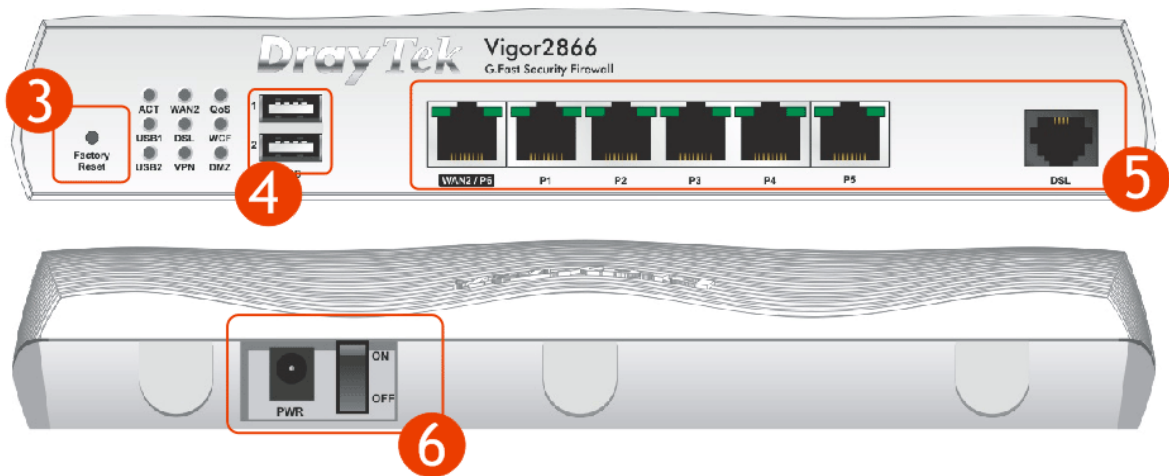
## 2. Panel Explanation



No.	LED	Status	Explanation
(1)	ACT	Off	The router is powered off.
		Blinking	The router is powered on and running normally.
	WAN2	On	Internet connection is ready.
		Off	Internet connection is not ready.
		Blinking	The data is transmitting.
	QoS	On	The QoS function is active.
		Off	The QoS function is inactive.
	USB1~2	On	USB device is connected and ready for use.
		Off	No USB device is connected.
		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.
	WCF	On	The Web Content Filter is active. (It is enabled from Firewall >> General Setup).
		Off	WCF is disabled.
	VPN	On	The VPN tunnel is active.
Off		VPN services are disabled	
Blinking		Traffic is passing through VPN tunnel.	
DMZ	On	The DMZ function is enabled.	
	Off	The DMZ function is disabled.	
	Blinking	The data is transmitting.	
(2)	WAN2 / P6		
	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.
	LAN P1-P5		
	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



No.	Interface	Description
(3)	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.
(4)	USB1~2	Connector for a USB device (for 3G/4G USB Modem or printer or thermometer).
(5)	WAN2 / P6	Connector for local network devices or modem for accessing Internet. It is a switchable port. It can be used for LAN connection or WAN connection according to the settings configured in WUI.
	LAN P1-P5	Connectors for local network devices.
	DSL	Connector for accessing the Internet.
(6)	PWR	Connector for a power adapter.
	ON/OFF	Power Switch.

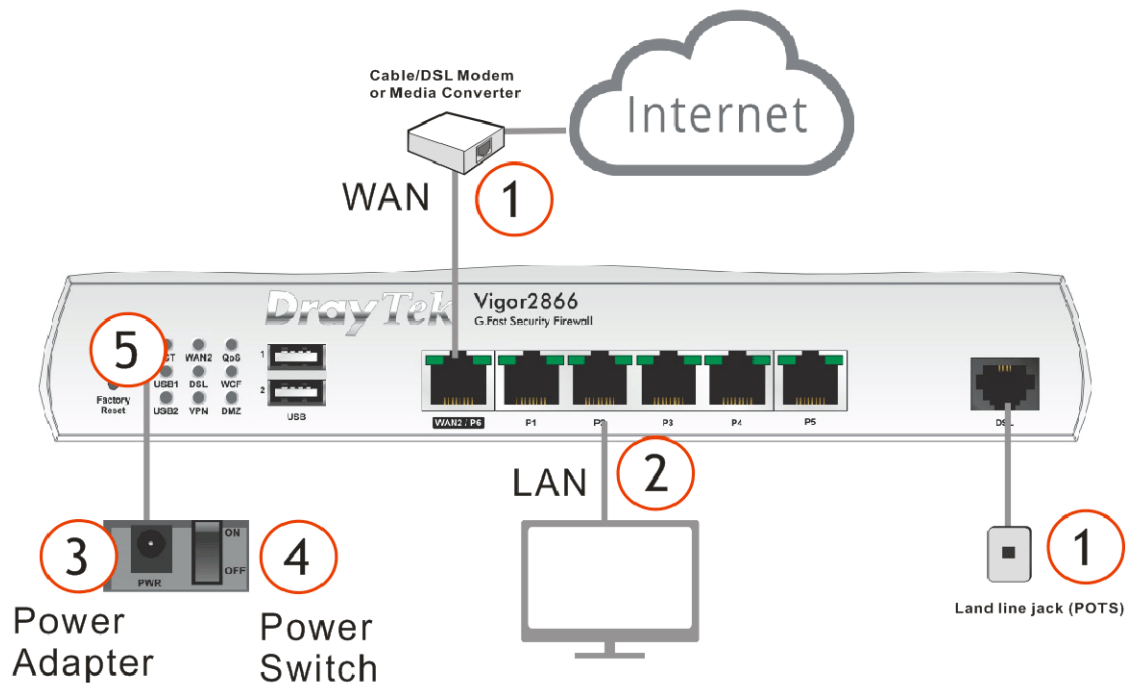
### 3. Hardware Installation

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

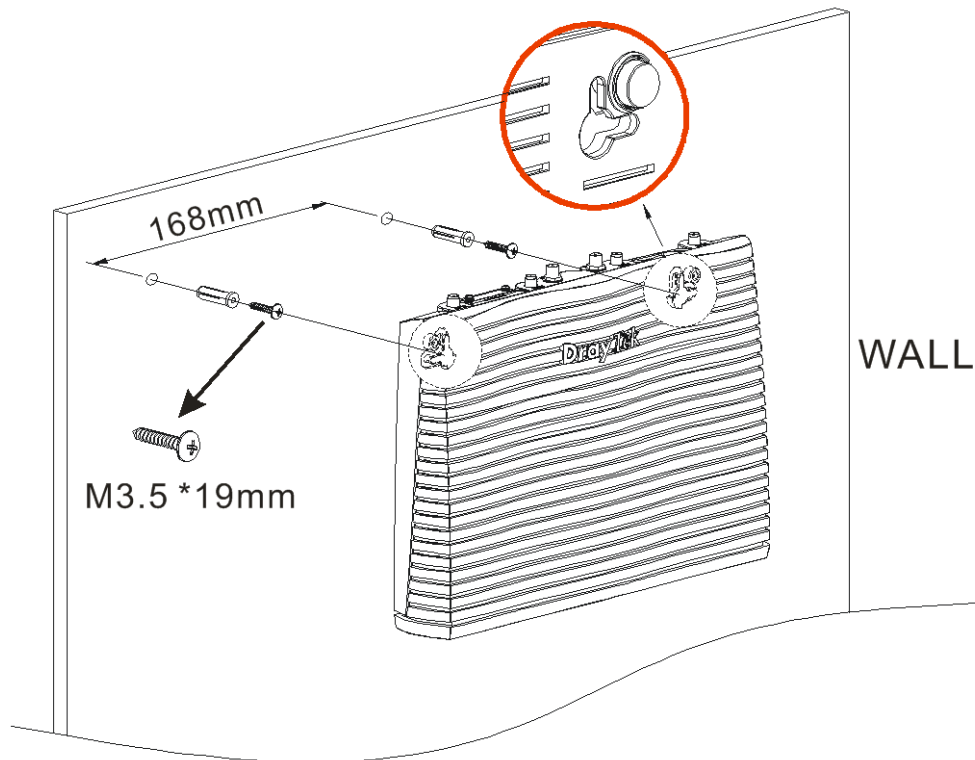
1. Connect the DSL interface to the land line jack with a DSL line cable, or Connect the cable Modem/DSL Modem/Media Converter to the WAN port of router with Ethernet cable (RJ-45).
2. Connect one end of an Ethernet cable (RJ-45) to one of the LAN ports of the router and the other end of the cable (RJ-45) into the Ethernet port on your computer.
3. 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.
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 2. Panel Explanation)



### 3.2 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.



#### Note

The recommended drill diameter shall be 6.5mm (1/4").

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

## 4. Software Configuration

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

### 4.1 Quick Start Wizard for Network Connection

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 User Interface. 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 - Trouble Shooting of 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 enter "admin/admin" as the Username/Password and click **Login**.

**DrayTek** **Vigor2866 Series**

**Login**

Username

Password

**Login**

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#### Note

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

---

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

The screenshot displays the DrayTek Vigor2866 Series web interface. The main dashboard area is titled 'Dashboard' and features a 'Vigor2866 G Fast Security Firewall' header. Below this, there are several sections:

- System Information:**

Model Name	Vigor2866	System Uptime	0 day 00:01:52
Router Name	kjk2866	Current Time	Fri Oct 13 2022 14:24:35
Firmware Version	4.4.2	Build Date/Time	Oct 13 2022 15:50:48
DSL Version	1272104 HW: A	LAN MAC Address	14-49-BC-02-36-50
- IPv4 LAN Information:**

LAN	IP Address	DHCP	LAN	IP Address	DHCP
LAN1	192.168.86.1/24	v	LAN2	192.168.87.1/24	v
LAN3	192.168.3.1/24	v	LAN4	192.168.4.1/24	v
LAN5	192.168.5.1/24	v	LAN6	192.168.6.1/24	v
LAN7	192.168.7.1/24	v	LAN8	192.168.8.1/24	v
DMZ PORT	192.168.254.1/24	v	IP Routed Subnet	192.168.0.1/24	v
- IPv4 Internet Access:**

WAN	Line / Mode	IP Address	MAC Address	Up Time
WAN1	VDSL2 / PPPoE	Disconnected	14-49-BC-02-36-51	0 day 00:00:00
WAN2	Ethernet / DHCP Client	10.8.19.3	14-49-BC-02-36-52	0 day 00:00:20
WAN3	Wireless 2.4G / ---	Disconnected	12-59-BC-02-36-50	0 day 00:00:00
WAN4	Wireless 5G / ---	Disconnected	12-49-BC-02-36-50	0 day 00:00:00
WAN5	USB / ---	Disconnected	14-49-BC-02-36-55	0 day 00:00:00
WAN6	USB / ---	Disconnected	14-49-BC-02-36-56	0 day 00:00:00
- Interface:**

DSL	Connected	Down Stream : 0Kbps / Up Stream : 0Kbps
WAN	Connected	1, WAN1, WAN2, WAN3, WAN4, WAN5, WAN6
LAN	Connected	0, Port1, Port2, Port3, Port4, Port5
USB	Connected	0, USB 1, USB 2
- Security:**

VPN	Connected	0	Remote Dial-In User / LAN to LAN
MyVigor	Activate	3	Web Content Filter, APP Enforcement, DrayDNS License
DoS	Attack Detected		
RootCA			



**Note**

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

**Wizards >> Quick Start Wizard**

**Enter login password**

Please enter an alpha-numeric string as your **Password** (Max 83 characters)

Old Password

New Password

Confirm Password

Password Strength: Weak Medium Strong

Strong password requirements:

1. Have at least one upper-case letter and one lower-case letter.
2. Including non-alphanumeric characters is a plus.

Hint: If you want to keep the password unchanged, leave the password blank and press "Next" button to skip this process.

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 WAN5 or WAN6. Then click **Next** for next step. WAN1, WAN2, WAN5 and WAN6 will bring up different configuration page. Here, we take **WAN1** as an example.

Wizards >> Quick Start Wizard

Select WAN Interface

Select WAN Interface:	WAN1
Display Name:	CTL VDSL 1087
Physical Mode:	ADSL / VDSL2 / G.fast
DSL Mode:	Auto
Physical Type:	Auto negotiation
VLAN Tag insertion(ADSL):	Disable
Tag value	(0~4095)
Priority	(0~7)
VLAN Tag insertion (VDSL2/G.fast):	Disable
Tag value	(0~4095)
Priority	(0~7)

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 PPPoA mode if the ISP provides you PPPoA interface. In addition, the field of **For ADSL Only** will be available only when ADSL is detected. Then click **Next** for next step.

Wizards >> Quick Start Wizard

Connect to Internet

<b>WAN 1</b>	
Protocol	PPPoE / PPPoA
<b>For ADSL Only:</b>	
Encapsulation	PPPoE LLC/SNAP
VPI	0 <input style="margin-left: 10px;" type="button" value=" Auto detect "/>
VCI	38
Fixed IP	<input type="radio"/> Yes <input checked="" type="radio"/> No(Dynamic IP)
IP Address	
Subnet Mask	
Default Gateway	
Primary DNS	8.8.8.8
Second DNS	8.8.4.4

## PPPoE/PPPoA

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

Wizards >> Quick Start Wizard

### Connect to Internet

<b>WAN 1</b>	
Protocol	PPPoE / PPPoA
<b>For ADSL Only:</b>	
Encapsulation	PPPoE LLC/SNAP
VPI	0 <input type="button" value="Auto detect"/>
VCI	38
Fixed IP	<input type="radio"/> Yes <input checked="" type="radio"/> No(Dynamic IP)
IP Address	<input type="text"/>
Subnet Mask	<input type="text"/>
Default Gateway	<input type="text"/>
Primary DNS	8.8.8.8
Second DNS	8.8.4.4

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

Wizards >> Quick Start Wizard

### Set PPPoE / PPPoA

<b>WAN 1</b>	
Service Name (optional)	CHTI
Username	77494727@hinet.net
Password	*****
Confirm Password	*****

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

Please confirm your settings:

WAN Interface:	WAN1
Physical Mode:	ADSL / VDSL2 / G.fast
VPI:	0
VCI:	38
Protocol / Encapsulation:	PPPoE / LLC
Fixed IP:	No
Primary DNS:	8.8.8.8
Secondary DNS:	8.8.4.4

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.

Wizards >> 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)

VCI: 38

Fixed IP:  Yes  No(Dynamic IP)

IP Address:

Subnet Mask:

Default Gateway:

Primary DNS: 8.8.8.8

Second DNS: 8.8.4.4

< 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.

Wizards >> Quick Start Wizard

Please confirm your settings:

WAN Interface:	WAN1
Physical Mode:	ADSL / VDSL2 / G.fast
VPI:	0
VCI:	38
Protocol / Encapsulation:	1483 Bridge 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.

## 5. Customer Service

If the router 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](mailto: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>