



DrayTek Vigor2865 Series 35b Security Firewall Router User Guide

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DrayTek

Vigor 2865 series
35b Security Firewall



Quick Start Guide(WIRED MODEL)
V1.2

Vigor2865
35b Security Firewall
Quick Start Guide (for Wired Model)

Version: 1. 2
Firmware Version: V4. 2. 2
(For future updates, please visit the DrayTek website)
Date: January 19, 2021,

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Intellectual Property Rights (IPR) 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 its 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, Fu Shing Road, HuKou County, Hsin-Chu Industry Park, Hsinchu 300, Taiwan, R.O.C., declare under our sole responsibility that the product

- **Product name:** VDSL2 Security Firewall
- **Model number:** Vigor2865
- **Manufacturer:** DrayTek Corp.
- **Address:** No.26, Fu Shing Road, HuKou, HsinChu Industry Park, Hsinchu 300, Taiwan.

is in conformity with the relevant Union harmonization legislation: EMC Directive 2014/30/EU, Low Voltage Directive 2014/35/EU, ErP 2009/125/EC and RoHS 2011/65/EU with reference to the following standards

Standard	Version / Issue date
EN 55032	2012+AC:2013 class B
EN 61000-3-2	2014 Class A
EN 61000-3-3	2013
EN 55024	2010+A1:2015
EN 62368	2014+A11:2017
EC No. 1275/2008	2008

Hsinchu (place)	2nd September 2019 (date)	 Calvin Ma / President. (Legal Signature)
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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	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.

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

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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 a minimum distance of 20cm between the radiator & your body.



For more updates, 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
A	Manufacturer	CWT	CWT	CWT	CWT	CWT	APD	APD	APD	APD
B	Address	No. 222, Sec. 2, Nank an Rd., Lujhu Township, Taoyuan County 338, Taiwan	No. 222, Sec. 2, Nank an Rd., Lujhu Township, Taoyuan County 338, Taiwan	No. 222, Sec. 2, Nank an Rd., Lujhu Township, Taoyuan County 338, Taiwan	No. 222, Sec. 2, Nank an Rd., Lujhu Township, Taoyuan County 338, Taiwan	No. 222, Sec. 2, Nank an 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	2ABB012F UK	2ABB018F UK	2ABL024F UK	2ABLO3OF UK	2ABNO36F UK	WA-12M12FG	WB-18D12FG	WA-24Q12FG	WA-36AI2FG
		2ABB012F EU	2ABB018F EU	2ABL024F EU	2ABLO3OF EU	2ABNO36F EU	WA-12M12FK	WB-18D12FK	WA-24Q12FK	WA-36AI2FK
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 updates, please visit www.draytek.com.

Package Content

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



Vigor router



Quick Start Guide



RJ-45 Cable (Ethernet)



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

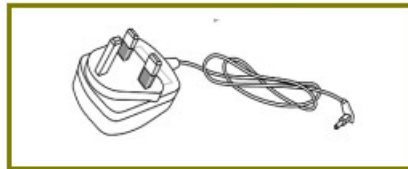


RJ-11 to RJ-45 Cable (Annex B)

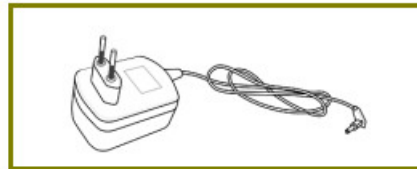


RJ-45 to RJ-45 Cable (Annex B)

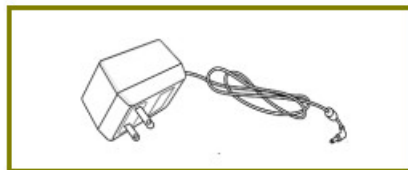
The type of the power adapter depends on the country that the router will be installed. * The maximum power consumption is **22 Watts**.



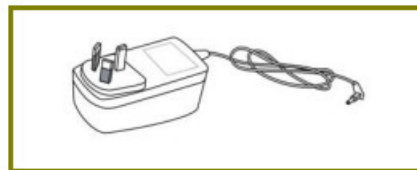
UK-type Power Adapter



EU-type Power Adapter

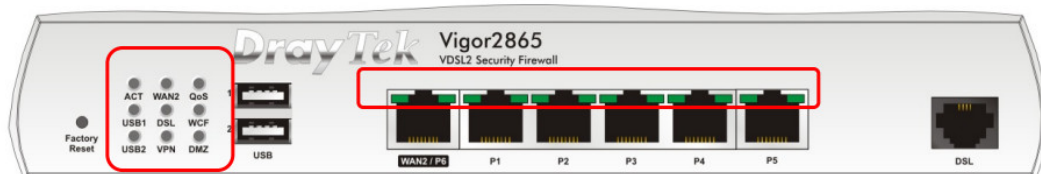


USA/Taiwan-type Power Adapter



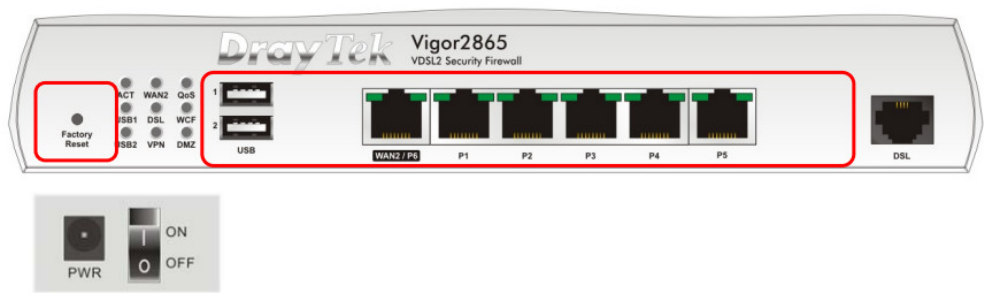
AU/NZ-type Power Adapter

Panel Explanation



LED		Status	Explanation
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 transmitted.
QoS		On	The QoS function is active.
		Off	The QoS function is inactive.
USB1 -2		On	The USB device is connected and ready for use.
		Off	No USB device is connected.
		Blinking	The data is transmitted.
DSL		On	The router is ready to access the Internet through a DSL link.
		Blinking	Slowly: The DSL connection is ready. Quickly: The connection is t raining.
WCF		On	The Web Content Filter is active. (It is enabled from Firewall » Ge neral Setup).
		Off	WCF is disabled.
VPN		On	The VPN tunnel is active.
		Off	VPN services are disabled
		Blinking	Traffic is passing through a VPN tunnel.
DMZ		On	The DMZ function is enabled.
		Off	The DMZ function is disabled.
		Blinking	The data is transmitted.
LED on Connector			
WAN2 / Pb	Left LED	On	The port is connected.
		Off	The port is disconnected.
		Blinking	The data is transmitted.
	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 transmitted.
	Right LED	On	The port is connected with 1000Mbps.
		Off	The port is connected with 10/100Mbps

The port “WAN2 / P6” is switchable. It can be used for LAN connection or WAN connection according to the settings configured in WUI.



Switch on Rear Side

Interface	Description
Factory Reset	Restore the default settings. Usage: Turn on the router (ACT LED is blinking). Press the hole and keep it for more than 5 seconds. When you see the ACT LED begin to blink rapidly than usual, release the button. Then the router will restart with the factory default configuration.
USB1 -2	Connector for a USB device (for 3G/4G USB Modem or printer or thermometer).
WAN2 / P6	Connector for local network devices or modem for accessing the Internet.
LAN P1 -P5	Connectors for local network devices.
DSL	Connector for accessing the Internet.
PWR	Connector for a power adapter.
ON/OFF	Power Switch.

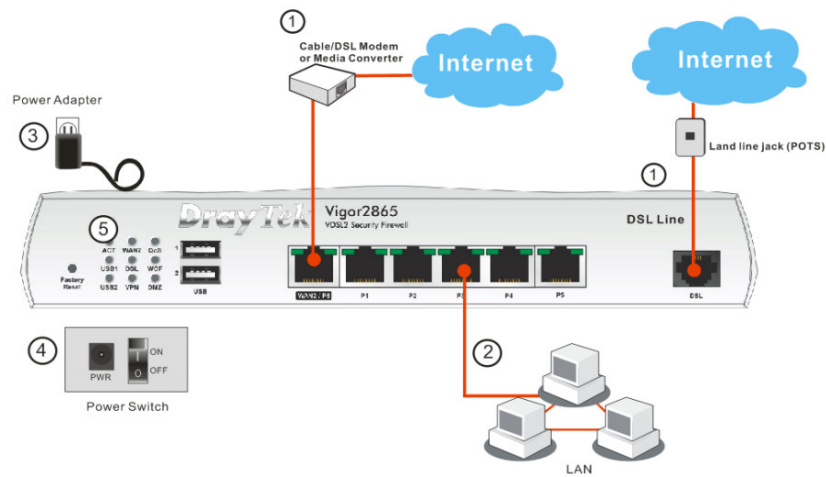
Hardware Installation

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

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

Network Connection

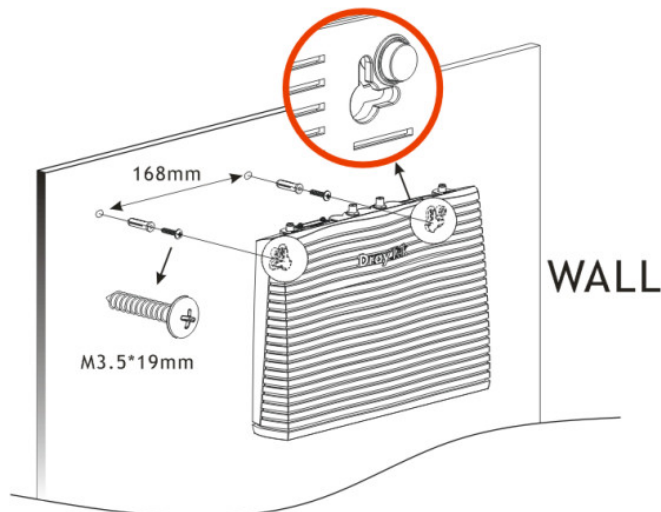
1. Connect the DSL interface to the landline jack with a DSL line cable, or Connect the cable Modem/DSL Modem/Media Converter to the WAN port of the router with Ethernet cable (RJ-45).
2. Connect one end of an Ethernet cable (RJ-45) to one of the LAN ports of the router and the other end of the cable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



Wall-Mounted Installation

The 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 the procedure, the router has been mounted on the wall firmly.

Software Configuration

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

Quick Start Wizard for Network Connection

The QuickStart Wizard is designed for you to easily set up your router for Internet access. You can directly access the QuickStart 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 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 a username and password. Please type admin/admin" as the Username/Password and click Login.



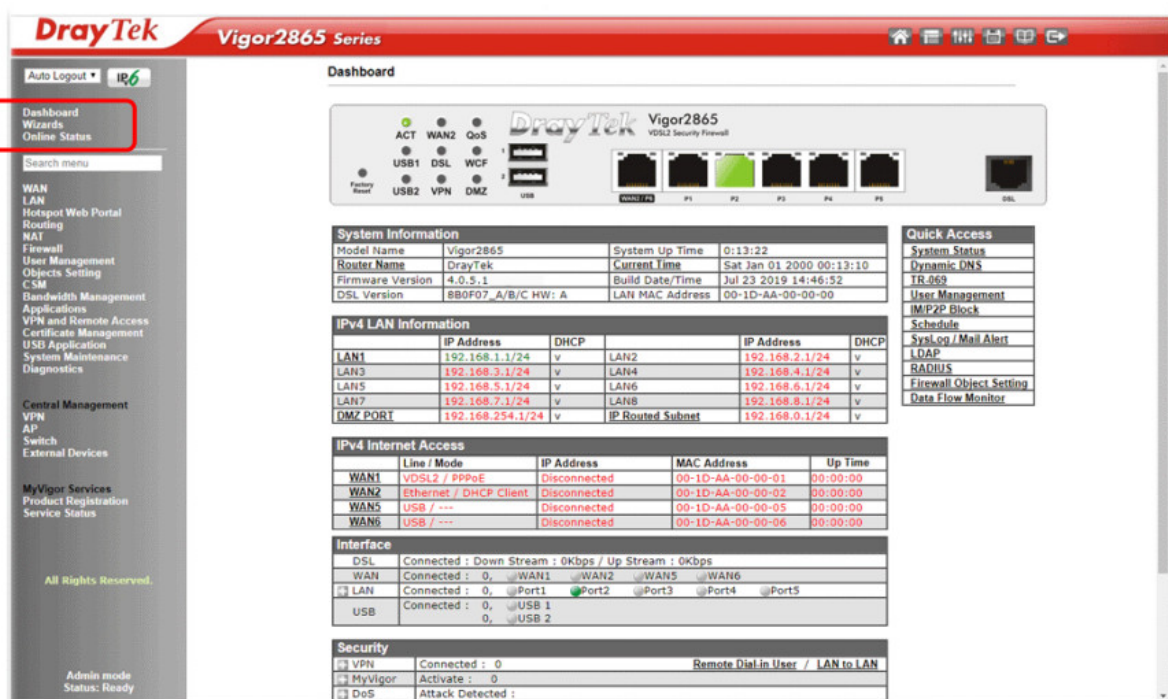
The login page for the DrayTek Vigor2865 Series router. It features a red header with the DrayTek logo and 'Vigor2865 Series'. Below the header is a 'Login' section with input fields for 'Username' (containing 'admin') and 'Password' (containing six dots). A 'Login' button is positioned below the password field. A 'Security Warning' message states: 'You are logging in without encryption which is not recommended. To login securely [click here](#).' At the bottom, a copyright notice reads: 'Copyright © 2000-2019 DrayTek Corp. All Rights Reserved.'



Note

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

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



The main screen of the DrayTek Vigor2865 Series router web interface. It features a red header with the DrayTek logo and 'Vigor2865 Series'. On the left is a sidebar menu with options like 'Dashboard', 'Wizards', 'Online Status', 'WAN', 'LAN', 'Hotspot Web Portal', 'Routing', 'NAT', 'Firewall', 'User Management', 'Objects Setting', 'CSM', 'Bandwidth Management', 'Applications', 'VPN and Remote Access', 'Certificate Management', 'USD Application', 'System Maintenance', 'Diagnostics', 'Central Management', 'VPN', 'AP', 'Switch', 'External Devices', 'MyVigor Services', 'Product Registration', and 'Service Status'. The main area displays a 'Dashboard' with a status bar showing 'ACT', 'WAN2', 'QoS', 'USB1', 'DSL', 'WCF', 'USB2', 'VPN', 'DMZ', and 'USB'. Below this are several tables: 'System Information', 'IPv4 LAN Information', 'IPv4 Internet Access', 'Interface', and 'Security'. The 'System Information' table shows details like Model Name, Router Name, Firmware Version, and System Up Time. The 'IPv4 LAN Information' table lists LAN ports and their IP addresses. The 'IPv4 Internet Access' table shows WAN ports and their connection status. The 'Interface' table shows the status of various interfaces. The 'Security' table shows the status of VPN, MyVigor, and DoS protection.



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 provided here can help you to deploy and use the router quickly.

The first screen of **Quick Start Wizard** is entering the 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

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

< 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 an Ethernet interface is used, please choose WAN2; if a 3G USB modem is used, please choose WAN5 or WAN6.

Then click **Next** for the next step. WAN1, WAN2, WAN5, and WAN6 will bring up different configuration pages. Here, we take **WAN1** (ADSL/VDSL2) as an example.

Quick Start Wizard

WAN Interface

WAN Interface:

Display Name:

Physical Mode:

Physical Type:

VLAN Tag insertion (**ADSL**):

VLAN Tag insertion (**VDSL2**):

< 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 the next step.

Connect to Internet

WAN 1	
Protocol	MPoA / Static or Dynamic IP ▼
For ADSL Only:	
Encapsulation	1483 Bridged IP LLC ▼
VPI	0 Auto detect
VCI	33
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

< Back Next > Finish Cancel

PPPoE//PPPoA

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

Connect to Internet

WAN 1	
Protocol	PPPoE / PPPoA ▼
For ADSL Only:	
Encapsulation	PPPoE LLC/SNAP ▼
VPI	0 Auto detect
VCI	33
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

< Back Next > Finish Cancel

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

Set PPPoE / PPPoA

WAN 1	
Service Name (Optional)	CHTI
Username	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 a summary of such a connection.

Please confirm your settings:

WAN Interface:	WAN1
Physical Mode:	ADSL / VDSL2
VPI:	0
VCI:	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 is 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.

Connect to Internet

WAN 1

Protocol

MPoA / Static or Dynamic IP ▾

For ADSL Only:

Encapsulation

1483 Bridged IP LLC ▾

VPI

0

Auto detect

VCI

33

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 a summary of such a connection.

Please confirm your settings:

WAN Interface:	WAN1
Physical Mode:	ADSL / VDSL2
VPI:	0
VCI:	33
Protocol / Encapsulation:	PPPoE / 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 is OK!!!** will appear. Then, the system status of this protocol will be shown.
4. Now, you can enjoy surfing on the Internet.

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 an e-mail to support@draytek.com.


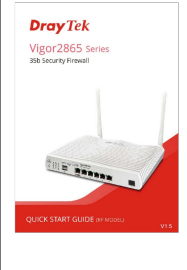
Be a Registered Owner

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 website for more information on the newest firmware, tools, and documents. <https://www.draytek.com>

Documents / Resources

	<p>DrayTek Vigor2865 Series 35b Security Firewall Router [pdf] User Guide Vigor2865 Series, 35b Security Firewall Router, Vigor2865 Series 35b Security Firewall Router, Security Firewall Router, Firewall Router</p>
	<p>DrayTek Vigor2865 Series 35b Security Firewall Router [pdf] User Guide Vigor2865 Series 35b Security Firewall Router, Vigor2865 Series, 35b Security Firewall Router, Security Firewall Router, Firewall Router, Router</p>

References

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