

P2540xs Managed PoE Switch Draytek Vigor Switch



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DrayTek

P2540xs Managed PoE Switch Draytek Vigor Switch



Product Information

Specifications:

- **Product Name:** PoE 48+6 ports 10G up-link Switch
- **Ports:** 48 Ethernet ports + 6 10G up-link ports
- **Management:** L2+ Managed Switch
- **Power over Ethernet (PoE):** Yes
- **Model:** VigorSwitch P2540xs/G2540xs
- **Firmware Version:** V3.9.4

Product Usage Instructions

Safety Instructions:

1. Read the installation guide thoroughly before setting up the switch.
2. Do not attempt to open or repair the switch yourself; seek authorized personnel.
3. Place the switch in a sheltered area with a temperature range of 0 to +45 Celsius.
4. Avoid exposure to direct sunlight or heat sources to prevent damage.
5. Do not deploy LAN connection cables outdoors to prevent electronic shock hazards.

Regulatory Compliance:

1. Ensure compliance with local regulations for environmental conservation when disposing of the switch.
2. Follow FCC guidelines for interference prevention and proper operation.
3. Comply with EU directives on EMC, Low Voltage, and RoHS for product conformity.

Installation:

1. Connect Ethernet cables to the appropriate ports based on your network configuration.
2. Power on the switch and ensure it is within the recommended temperature range.
3. Access the switch management interface for configuration settings if required.
4. For PoE devices, connect them to the designated PoE ports for power supply.

FAQ:

- **Q: Can I use non-PoE devices with this switch?**

A: Yes, you can connect non-PoE devices to the regular Ethernet ports on the switch without any issues.

• **Q: How do I update the firmware of the VigorSwitch?**

A: To update the firmware, visit the DrayTek website for the latest version and follow the provided instructions for updating.

Intellectual Property Rights (IPR) Information

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- Microsoft is a registered trademark of Microsoft Corp.
- Windows 10, 11 and Explorer are trademarks of Microsoft Corp.
- Apple and Mac OS are registered trademarks of Apple Inc.
- Other products may be trademarks or registered trademarks of their respective manufacturers.

Safety Instructions

- Read the installation guide thoroughly before you set up the switch.
- The switch is a complicated electronic unit that may be repaired only by authorized and qualified personnel. Do not try to open or repair the switch yourself.
- Do not place the switch in a damp or humid place, e.g. a bathroom.
- The switch should be used in a sheltered area, within a temperature range of 0 to +45 Celsius.
- Do not expose the switch 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 outdoors to prevent electronic shock hazards.
- Do not power off the device when saving configurations or firmware upgrades. It may damage the data in a flash. Please disconnect the Internet connection on the device before powering it off when a TR-069/ ACS server manages the device.
- Keep the package out of reach of children.
- When you want to dispose of the switch, please follow local regulations on the preservation of the environment.

Warranty

We warrant to the original end-user (purchaser) that the device will be free from any defects in workmanship or materials for 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 labour, 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 that 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 revisions or changes.

Regulatory Information

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, under 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 by 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 the receiver.
- Connect the equipment to 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.

Caution:

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

Declaration of Conformity

EU Declaration of Conformity

- Hereby, DrayTek Corporation declares that the equipment type VigorSwitch complies with EU EMC Directive 2014/30/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/VigorSwitch%20G2540xs/Document/CE/>
 - <https://fw.draytek.com.tw/VigorSwitch%20P2540xs/Document/CE/>
- Product name: PoE 48+6 ports 10G up-link Switch, 48+6 ports 10G up-link Switch
- Model number: VigorSwitch P2540xs, VigorSwitch G2540xs
- Manufacturer: DrayTek Corp.
- Address: No.26, Fushing Rd, Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan.

Declaration of Conformity

Hereby, DrayTek Corporation declares that the equipment type VigorSwitch complies with 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).

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

- <https://fw.draytek.com.tw/VigorSwitch%20G2540xs/Document/CE/>
- <https://fw.draytek.com.tw/VigorSwitch%20P2540xs/Document/CE/>

- Product name: PoE 48+6 ports 10G up-link Switch, 48+6 ports 10G up-link Switch
- Model number: VigorSwitch P2540xs, VigorSwitch G2540xs
- Manufacturer: DrayTek Corp.
- Address: No.26, Fushing Rd, Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan

UK PSTI STATEMENT OF COMPLIANCE

We, DrayTek Corp., office at No.26, Fushing Rd., Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan, declare under our sole responsibility that the product The full text of the PSTI Declaration of Conformity is available at the following internet address: <https://fw.draytek.com.tw/UK/PSTI/>.

- Product name: L2+Management Switch
- Model number: VigorSwitch G2540xs, VigorSwitch P2540xs
- Manufacturer: DrayTek Corp.
- Address: No.26, Fushing Rd., Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan

conforms with the relevant UK Statutory Instruments: The Product Security and Telecommunications Infrastructure (Security Requirements for Relevant Connectable Products) Regulations 2023 ("Security Requirements").

Standard	Version
The Product Security and Telecommunications Infrastructure Regulations	2023 Schedule 1
Support Period	3 years after the EOL notification

Please note that this statement of compliance, including the Defined Support Period stated herein, is only applicable to products sold in the UK. This Statement of Compliance is retained by DrayTek for 10 years after the date of issue.

Hsinchu

(place)

27th Mar., 2024

(date)



Alan Wen
General Manager Office. VP
 (Legal Signature)

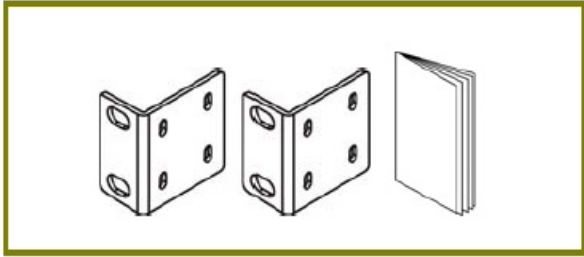
Package Content



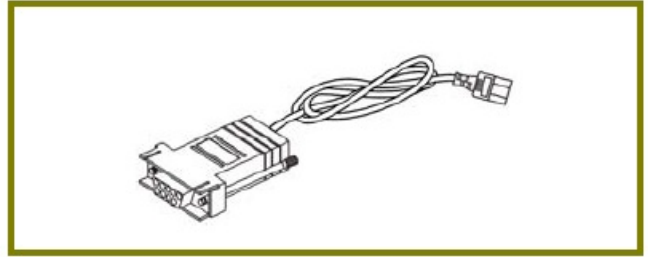
VigorSwitch P2540xs



VigorSwitch G2540xs



Rack Mount Kit (brackets) & Quick Start Guide

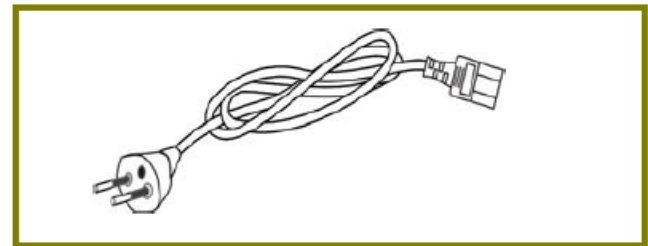


Console Cable

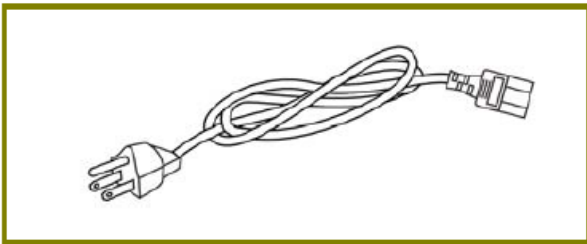
The type of the power cord depends on the country in which the switch will be installed.



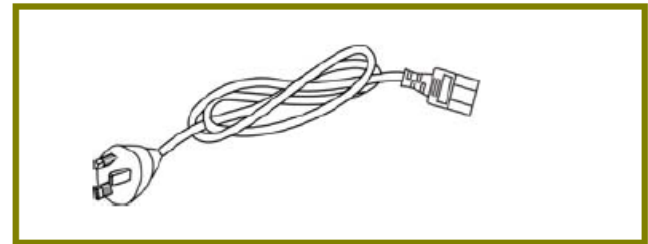
UK-type Power Cord



EU-type Power Cord



USA/Taiwan-type Power Cord



AU/NZ-type Power Cord

If any of these items is found missing or damaged, please contact your local supplier for replacement.

Panel Explanation

PoE Port 1 ~ 48






Port 1 ~ 48 (GbE RJ45)

Port 49 ~ 54 (SFP+)



LED	Status	Explanation
Monitor	On (Red)	An alert for system failure due to overheating or wrong voltage.
	Off	The device is in normal condition and running normally.
Alert (for P2540xs)	Blinking (Green)	The power is over (>) 80% watts PoE power budget.
	Off	The power is under (<) 80% watts PoE power budget.
SYS	On (Green)	The switch finishes system booting and the system is ready.
	Blinking (Green)	The switch is powered on and starts the system booting.
	Off	The power is off or the system is not ready/malfunctioning.
PWR	On (Green)	The device is powered on and running normally.
	Off	The device is not ready or has failed.
PoE Port 1 ~ 48 (f or P2540xs)	On (Green)	The port is supplied with PoE power.
	Off	No PoE power is supplied on the port.
Port 1 ~ 48 (GbE RJ45)	On (Green)	The device is connected with 1000Mbps.
	On (Amber)	The device is connected with 10/100Mbps.
	Blinking	The system is sending or receiving data through the port.
	Off	The port is disconnected or the link is failed.
Port 49 ~ 54 (SFP +)	On (Green)	The device is connected with 1000Mbps.
	On (Blue)	The device is connected with 10Gbps.
	Blinking	The system is sending or receiving data through the port.
Interface		Description
RST		Restore the default settings.
Port 1 ~ 48 (PoE)		Port 1 to Port 48 can be used for Ethernet connection and PoE connection, depending on the device connected.
Port 49 ~ 54 (SFP+)		Port 49 to Port 54 are used for 10G/1000M fibre connection.

Slide Switch 	(for P2540xs) Switch the LED function. Right: PoE connection status. Left: LAN port connection status.
Console 	Used to perform telnet command control.
	Power inlet for AC input (100~240V/AC, 50/60Hz).

Note

For P2540xs

Power Output

- IEEE 802.3af Max. 15.4W Output Supported
- IEEE 802.3at Max. 30W Output Supported PoE Power Budget —
- 400 Watts (Max)

Hardware Installation

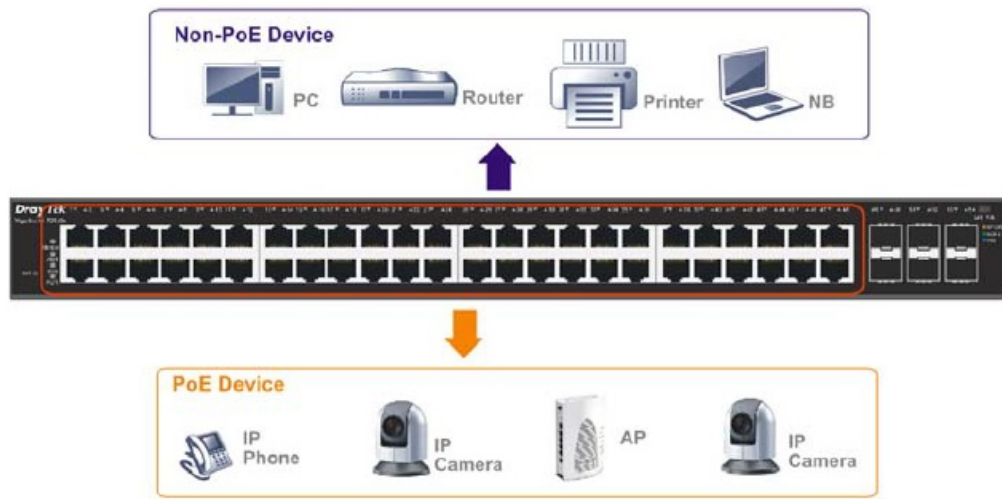
- This section will guide you to install the switch through a hardware connection and configure the switch's settings through a web browser.
- Before starting to configure the switch, you have to connect your devices correctly.

Network Connection

Allowance for connecting Non-PoE devices and PoE devices

Here, we take VigorSwitch P2540xs as an example.

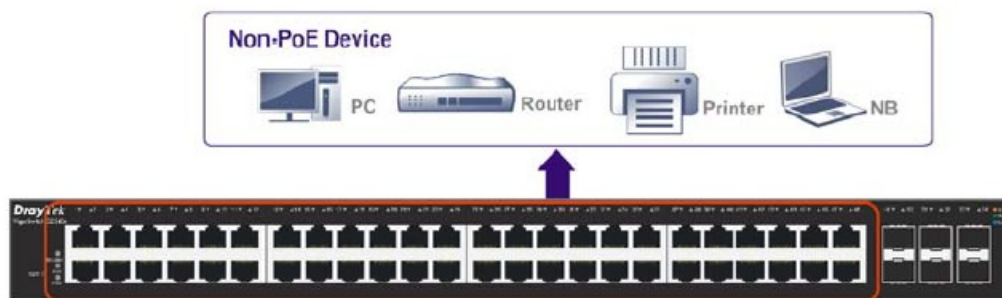
- Use a Cat. 5e twisted-pair cable to connect a PoE device to the port (1~48) of this switch.
- The switch will supply power to the PoE Device over the twisted-pair cable.
- Please note that the Power Device must comply with IEEE 802.3af/at.
- Other PCs, servers and network devices can be connected to the switch using a standard 'straight through' twisted pair cable.



Allowance for connecting Non-PoE devices

Here, we take VigorSwitch G2540xs as an example.

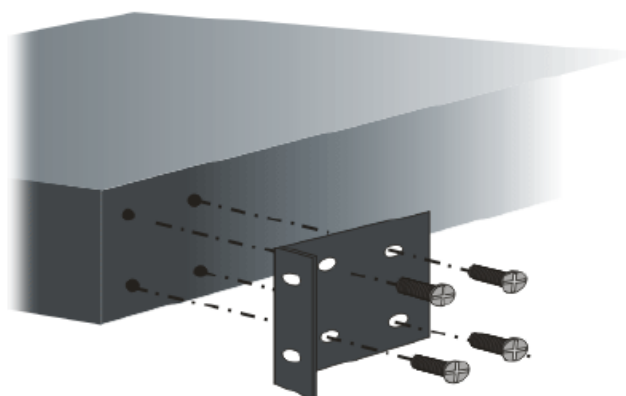
- Use the Ethernet cable(s) to connect None-PoE devices to the Vigor switch.
- All device ports are in the same local area network.



Rack-Mounted Installation

The switch can be installed easily by using a rack mount kit.

1. Fasten the rack mount kit on both sides of the VigorSwitch using specific screws.

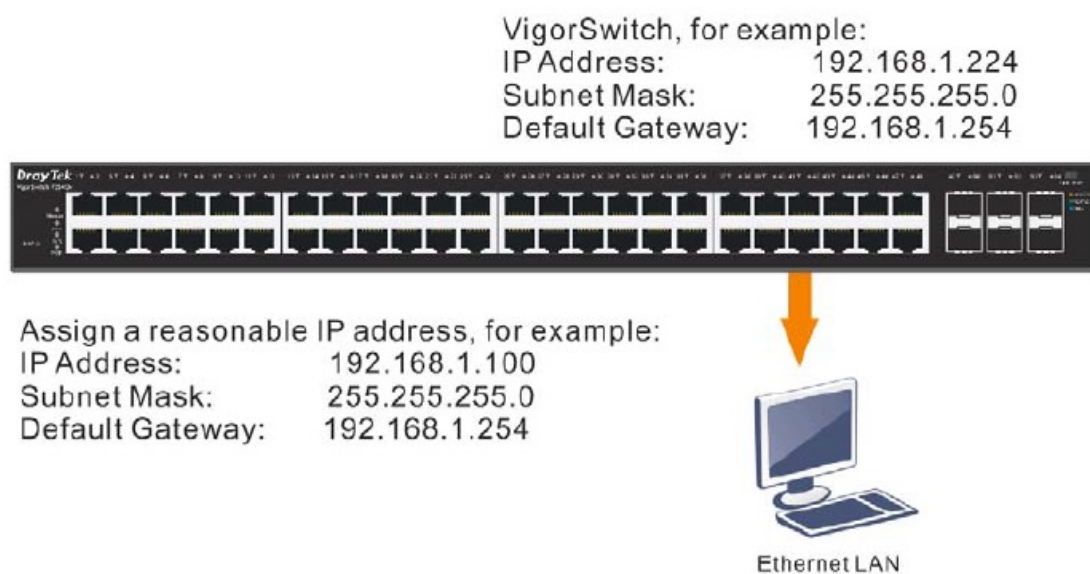


2. Then, install the VigorSwitch (with rack mount kit) on the 19-inch chassis by using the other four screws.



Here, we take VigorSwitch P2540xs as an example.

Software Configuration



Before using the switch, perform the following steps:

1. Set up a physical path between the configured switch and a PC by a qualified UTP Cat. 5e cable with RJ-45 connector. If a PC directly connects to the switch, you have to set up the same subnet mask for the PC and the switch. The default values of the managed switch are listed as follows:

IP Address	192.168.1.224
Subnet Mask	255.255.255.0
DHCP Client	Enabled (On)
Username	admin
Password	admin

2. After configuring the correct IP address on your PC, open your web browser and access the switch's IP address.
3. Please enter "admin/admin" as the Username/Password and click Login.



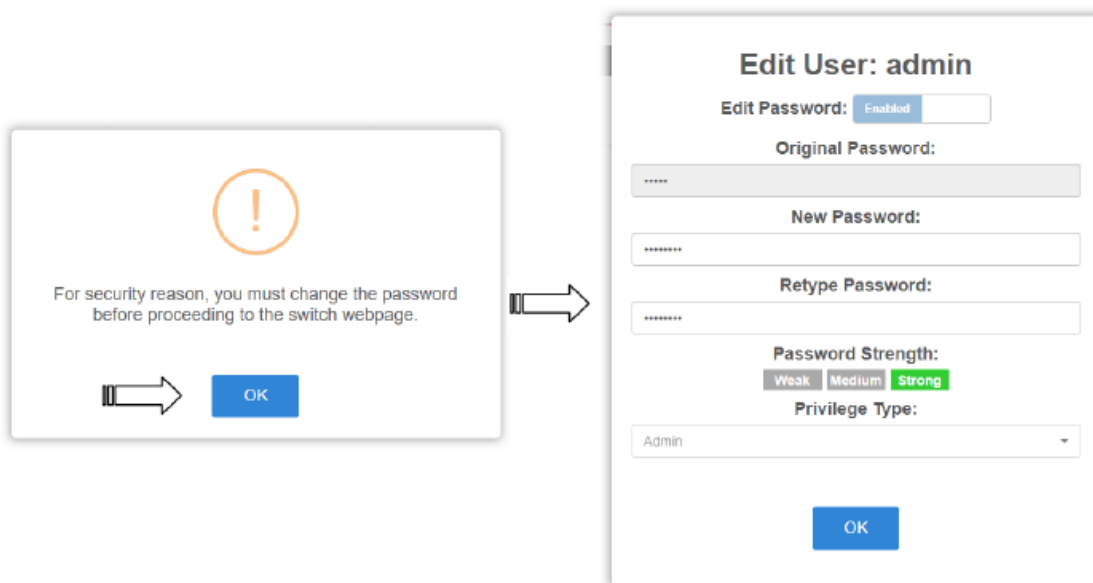
DrayTek VigorSwitch P2540xs

Login

User:

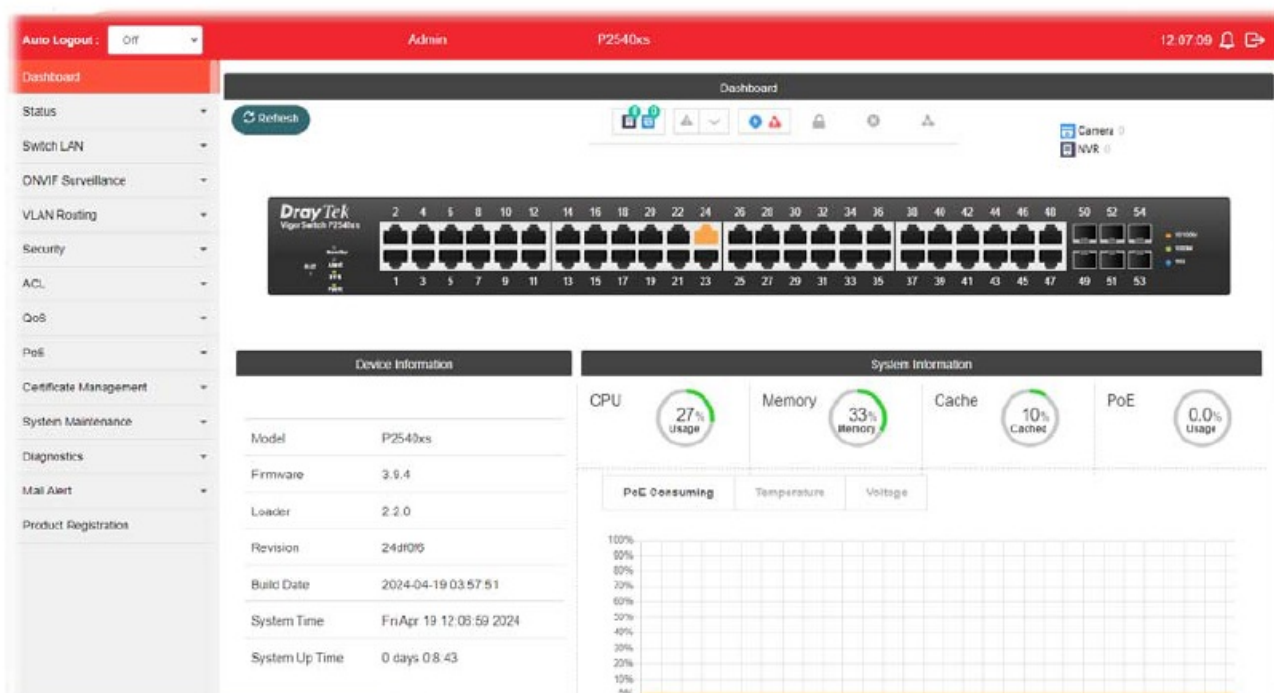
Password:

4. Next, a page will appear to guide you change the login password. You **MUST** change the login password before accessing the web user interface. Please click OK.



The diagram shows a sequence of two screens. The first screen is a modal dialog with an orange exclamation mark icon and the text: "For security reason, you must change the password before proceeding to the switch webpage." It has an "OK" button. An arrow points from this dialog to the second screen, which is the "Edit User: admin" page. This page has a toggle for "Edit Password" (set to "Enabled"), fields for "Original Password", "New Password", and "Retype Password", a "Password Strength" indicator (showing Weak, Medium, and Strong), a "Privilege Type" dropdown (set to Admin), and an "OK" button.

5. Please set a new password with the highest level of strength for network security.
6. Click OK to proceed. You will then be prompted to log in with the new password. Afterwards, the VigorSwitch home page will be displayed.



If the switch 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.

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 switches will be regularly upgraded. Please consult the DrayTek website for more information on the newest firmware, tools and documents. <https://www.draytek.com>

GPL Notice




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- To download source codes please visit: <http://gplsource.draytek.com>
- GNU GENERAL PUBLIC LICENSE: <https://gnu.org/licenses/gpl-2.0>
- Version 2, June 1991
- For any questions, please feel free to contact DrayTek technical support at support@draytek.com for further information.

Documents / Resources

	<p>DrayTek P2540xs Managed PoE Switch Draytek Vigor Switch [pdf] User Guide P2540xs Managed PoE Switch Draytek Vigor Switch, P2540xs, Managed PoE Switch Draytek Vigor Switch, Switch Draytek Vigor Switch, Draytek Vigor Switch, Vigor Switch, Switch</p>
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References

-  [GNU General Public License v2.0 - GNU Project - Free Software Foundation](#)
-  [MyVigor - DrayTek](#)
-  [Home | DrayTek](#)
- [User Manual](#)

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