# VigorSwitch PQ2200xb L2+ Managed Switch Quick Start Guide

Version: 1.0

Firmware Version: V2.7.1

(For future update, please visit DrayTek web site)

Date: July 6, 2022

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### Safety Instructions and Approval

### 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 be 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 +5 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 outdoor to prevent electronic shock hazards.
- Keep the package out of reach of children.
- When you want to dispose of the switch, please follow local regulations on conservation of the environment.

### Warranty

We warrant to the original end user (purchaser) that the switch 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.





**EU Declaration of Conformity** 

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

Product name: PoE 16-port 2.5G with 4-port 10G SFP+ up-link Switch

VigorSwitch PQ2200xb Model number:

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 A
EN 61000-3-2	2014 Class A
EN 61000-3-3	2013
EN 55035	2017
EN 62368-1	2014 +A11:2017
EN IEC63000:2018	2018

<u>Hsinchu</u> (place) December 30, 2020 (date)

Calvin Ma / President (Legal Signature)





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

Importer: CMS Distribution Ltd: Bohola Road, Kiltimagh, Co Mayo, Ireland

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+A1:2016 class A
EN 61000-3-2	2014
EN 61000-3-3	2013+A1:2019
EN 55024	2010+A1:2015
EN 62368-1	2014+A11:2017
EN IEC 63000:2018	2018

Hsinchu (place)

December 30, 2020 (date)

Calvin Ma / President (Legal Signature)

## **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, 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.

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



More update, please visit www.draytek.com.

**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

## Be a Registered Owner

Web registration is preferred. You can register your Vigor switch 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 web site for more information on newest firmware, tools and documents. https://www.draytek.com



## **Package Content**



VigorSwitch PQ2200xb (with PoE)

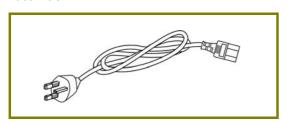


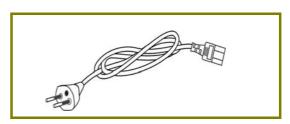


**Rack Mount Kit (brackets)** 

**Console Cable** 

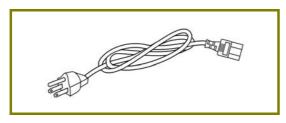
The type of the power cord depends on the country that the switch will be installed.

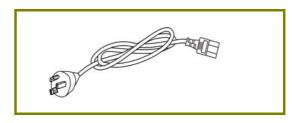




**UK-type Power Cord** 

**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**



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	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 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 is failed.
Port 1 ~ 16	On (Green)	The port is supplied with PoE power.
(PoE)	Off	No PoE power is supplied on the port.
Port 1 ~ 16 (2.5GbE RJ45)	On (Green)	The device is connected with 2500Mbps.
	On (Amber)	The device is connected with 10/100/1000Mbps.
	Blinking	The system is sending or receiving data through the port.
	Off	The port is disconnected or the link is failed.
Port 17 ~ 20 (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.
	Off	The port is disconnected or the link is failed.
Interface		Description
Port 1 ~ 16 (2.50	GbE RJ45)	Used for Ethernet connection (10/100/1000/2500Mbps). For VigorSwitch PQ2200xb, PoE supports: Port 1 ~ 4: 802.3af/at/bt, up to 90W. Port 5 ~ 16: 802.3af/at, up to 30W. See the following note for detail.
Port 17 ~ 20 (SFP+)		Port 17 to Port 20 are used for fiber connection.
Console		Used to perform telnet command control.
=1		Power inlet for AC input (100~240V/AC, 50/60Hz).



### Note

## Power Output --

- IEEE 802.3af Max. 15.4W Output Supported
- IEEE 802.3at Max. 30W Output Supported
- IEEE 802.3bt Max. 90W Output Supported

PoE Power Budget --

• 400 Watts (Max)



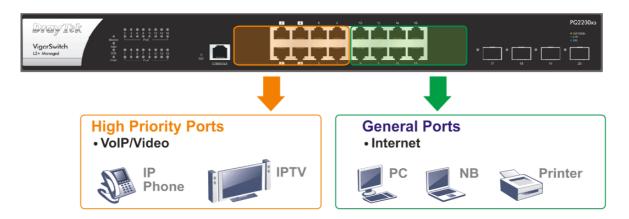
## **Hardware Installation**

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

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

### 3.1 Network Connection

- Use a Cat. 5e twisted-pair cable to connect a PoE device to the port (1~16) of this switch.
- The switch will supply power to PoE Device over the twisted-pair cable.
- Please note that Power Device must comply with IEEE 802.3af/at/bt.
- Other PCs, servers and network devices can be connected to the switch using a standard 'straight through' twisted pair cable.



## 3.2 Rack-Mounted Installation

The switch can be installed easily by using 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 other four screws.

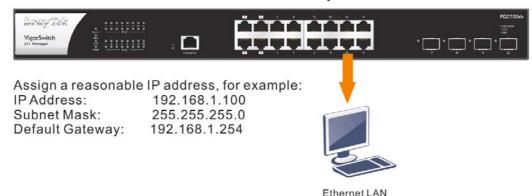




## **Software Configuration**

VigorSwitch, for example:

IP Address: 192.168.1.224 Subnet Mask: 255.255.255.0 Default Gateway: 192.168.1.254



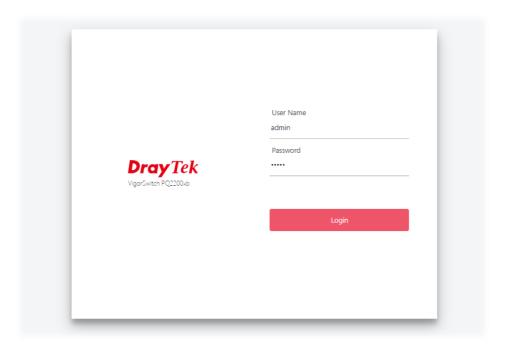
Before using the switch, perform the following steps:

1. Set up a physical path between the configured the switch and a PC by a qualified UTP Cat. 5e cable with RJ-45 connector.

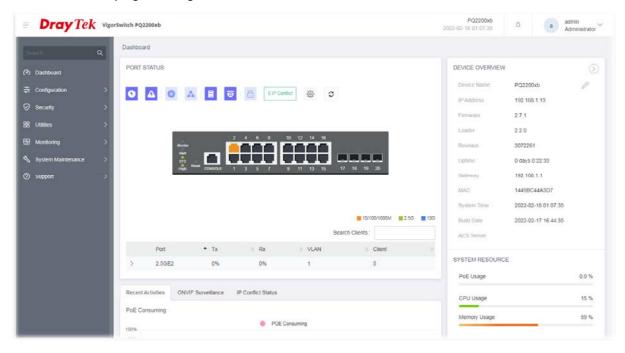
If a PC directly connects to the switch, you have to setup the same subnet mask for PC and the switch. Default values of the managed switch are listed as follows:

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

2. After configuring correct IP address on your PC, open your web browser and access switch's IP address.



The home page of VigorSwitch will be shown as below:



### **Customer Service**

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.

#### **GPL Notice**

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Version 2, June 1991

For any question, please feel free to contact DrayTek technical support at support@draytek.com for further information.