DrayTek

VigorSwitch P1280/G1280
Web Smart Gigabit Switch

Quick Start Guide

V1.2

VigorSwitch P1280 / G1280 Web Smart Gigabit Switch

Quick Start Guide

Version: 1.2

Firmware Version: V2.1.0_RC

(For future update, please visit DrayTek web site)

Date: September 04, 2017

Intellectual Property Rights (IPR) Information

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. • Do not stack the switches. • The switch should be used in a sheltered area, within a temperature range of +5 to +40 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 one (1) year 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.

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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:** **PoE Web Smart Gigabit Switch**
- **Model number:** **VigorSwitch P1280**
- **Manufacturer:** **DrayTek Corp.**
- **Address:** **No.26, Fu Shing Road, HuKou County, Hsin-Chu Industry Park, Hsinchu 300, Taiwan , R.O.C.**

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 class A
EN 61000-3-2	2014 Class A
EN 61000-3-3	2013
EN 55024	2010+A1:2015
EN 60950-1	2006 +A11:2009 +A1:2010 +A12:2011+ A2:2013

Calvin Ma

Hsinchu   **22nd June, 2017**   **Calvin Ma / President** .

(place)   (date)   (Legal Signature)

DrayTek

CE

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:** **24 Ports Gigabit Switch**
- **Model number:** **VigorSwitch G1280**
- **Manufacturer:** **DrayTek Corp.**
- **Address:** **No.26, Fu Shing Road, HuKou County, Hsin-Chu Industry Park, Hsinchu 300, Taiwan , R.O.C.**

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 class A
EN 61000-3-2	2014 Class A
EN 61000-3-3	2013
EN 55024	2010+A1:2015
EN 60950-1	2006 +A11:2009 +A1:2010 +A12:2011+ A2:2013

Calvin Ma

Hsinchu   **22nd June,   2017**   **Calvin Ma / President**   .

(place)   (date)   (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.

Be a Registered Owner

Web registration is preferred. You can register your Vigor switch via http://www.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. http://www.draytek.com

1 Package Content

The 24 ports + 4 Combo UTP/SFP ports, Web Smart Gigabit Ports Switch is a standard switch that meets both IEEE 802.3u/ab Fast Ethernet and Gigabit Ethernet specifications.

The network administrator can logon the switch to monitor, configure and control each port's activity. In addition, the switch implements the QoS (Quality of Service) and VLAN. It is suitable for office application.
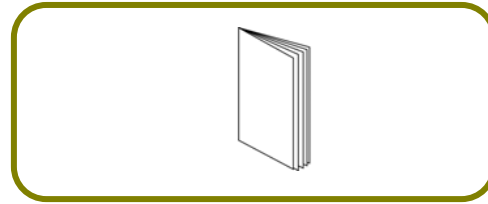
VigorSwitch P1280 (with PoE)   **VigorSwitch G1280 (without PoE)**
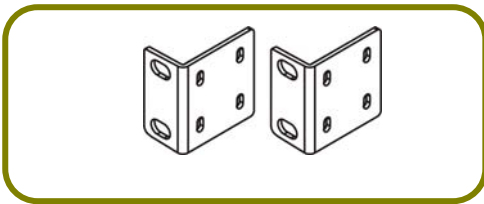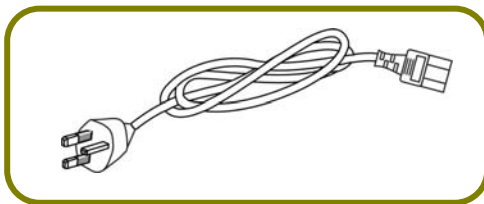
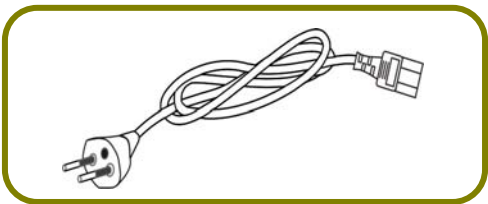**Rack Mount Kit (brackets)**   **Quick Start Guide**
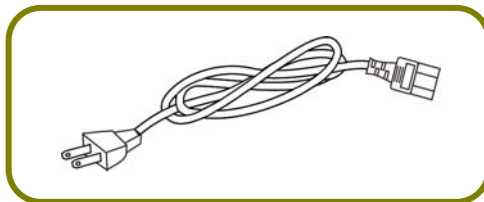
The type of the power cord depends on the country that the switch will be installed.
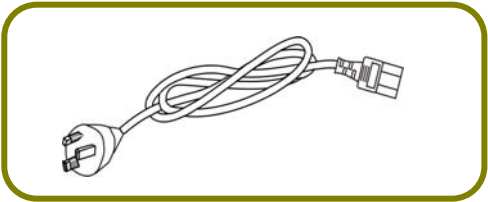
UK-type Power Cord   **EU-type Power Cord**
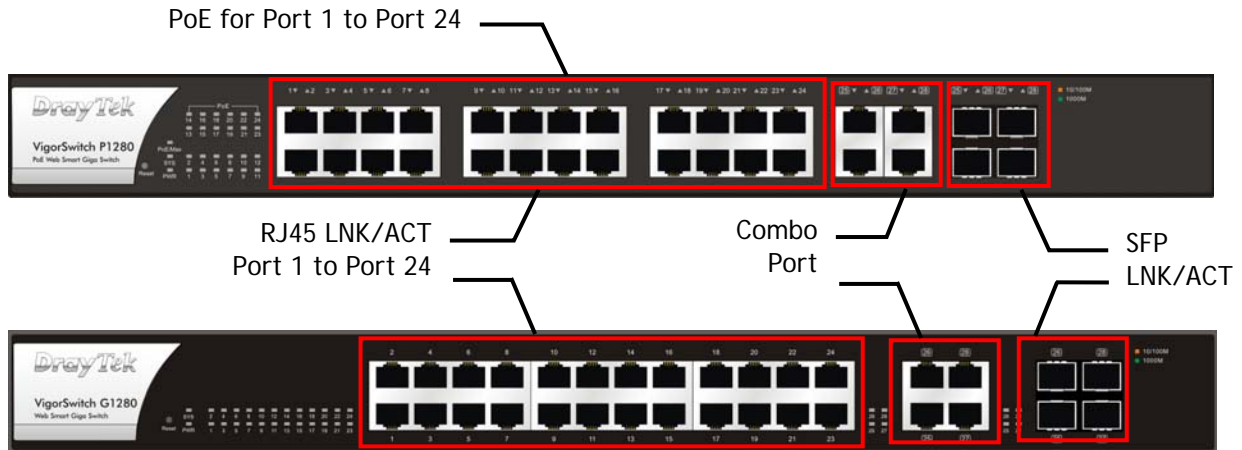
USA/Taiwan-type Power Cord   **AU/NZ-type Power Cord**

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

2 Panel Explanation

PoE for Port 1 to Port 24

RJ45 LNK/ACT
Port 1 to Port 24

Combo
Port

SFP
LNK/ACT

LED	Status	Explanation
PoE/Max (for P1280)	On (Green)	Connected over the PoE maximum power budget.
	Off	Connected within the PoE maximum 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.
PoE 1~24	On (Green)	The port is supplied with PoE power.
	Off	No PoE power is supplied on the port.
RJ 45 LNK/ACT Port 1 ~ 24	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.
Combo for Port 25 ~ 28 (RJ 45	On (Green)	The device is connected with 1000Mbps.
	On (Amber)	The device is connected with 10/100Mbps.

LNK/ACT)	Blinking	The system is sending or receiving data through the port.
	Off	The port is disconnected or the link is failed.
SFP LNK/ACT	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.

Interface	Description
RJ 45 LNK/ACT Port 1 ~ 24	Port 1 to Port 24 can be used for Ethernet connection and PoE connection, depending on the device connected.
PoE for Port 1 ~ 24	
SFP LNK/ACT Port 25 ~ 28	Port 25 to Port 28 are used for fiber connection.
	Power inlet for AC input (100~240V/AC, 50/60Hz).

Note The following limitation is suitable for VigorSwitch P1280

Power Output --

● IEEE 802.3af Max. 15.4W Output Supported

● IEEE 802.3at Max. 30W Output Supported

PoE Power Budget --

● 340 Watts (Max)

3 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.

Note	Power the device to this switch and get 48V power source through Cat. 5e Cable.

3.1 Network Connection

- Use a Cat. 5e twisted-pair cable to connect a PoE device to the port (1~24) 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.

- Other PCs, servers and network devices can be connected to the switch using a standard 'straight through' twisted pair cable.
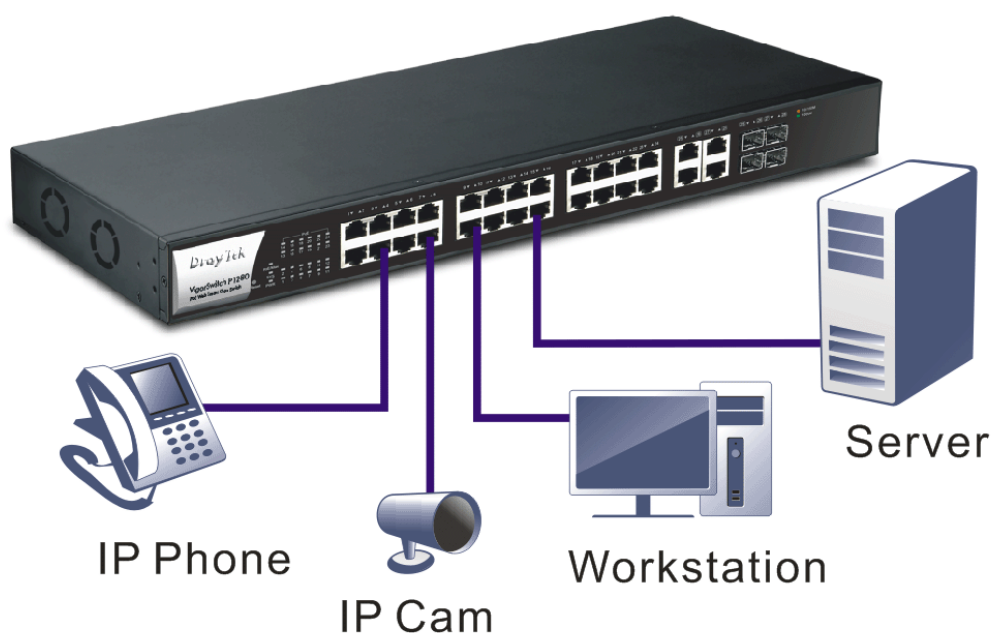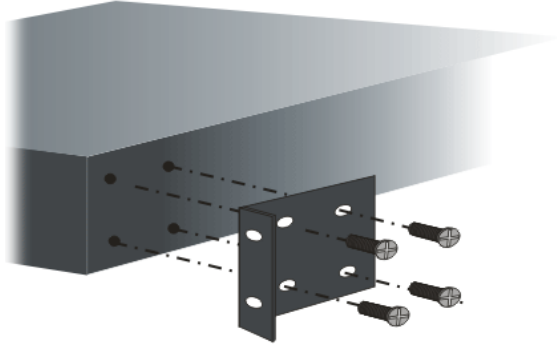

(Take VigorSwitch P1280 as an example)

3.2 Wall-Mounted Installation

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

1. Attach the brackets to the chassis of a 19- or a 23-inch rack. The second bracket attaches the other side of the chassis as above procedure.

2. After the bracket installation, the VigorSwitch's chassis can be installed in a rack by using four screws for each side of the rack.

4 Software Configuration

In this section, we take VigorSwitch P1280 as an example:

VigorSwitch, for example:
IP Address: 192.168.1.224
Subnet Mask: 255.255.255.0
Default Gateway: 192.168.1.254

Assign a reasonable IP Address, for example:
IP Address: 192.168.1.100
Subnet Mask: 255.255.255.0
Default Gateway: 192.168.1.254

Ethernet LAN

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.
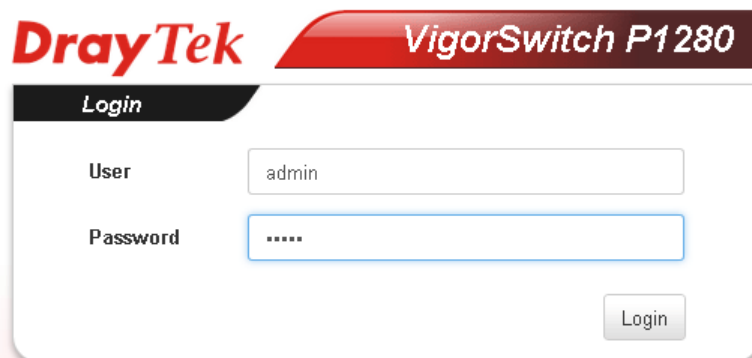
The home page of VigorSwitch will be shown as below:
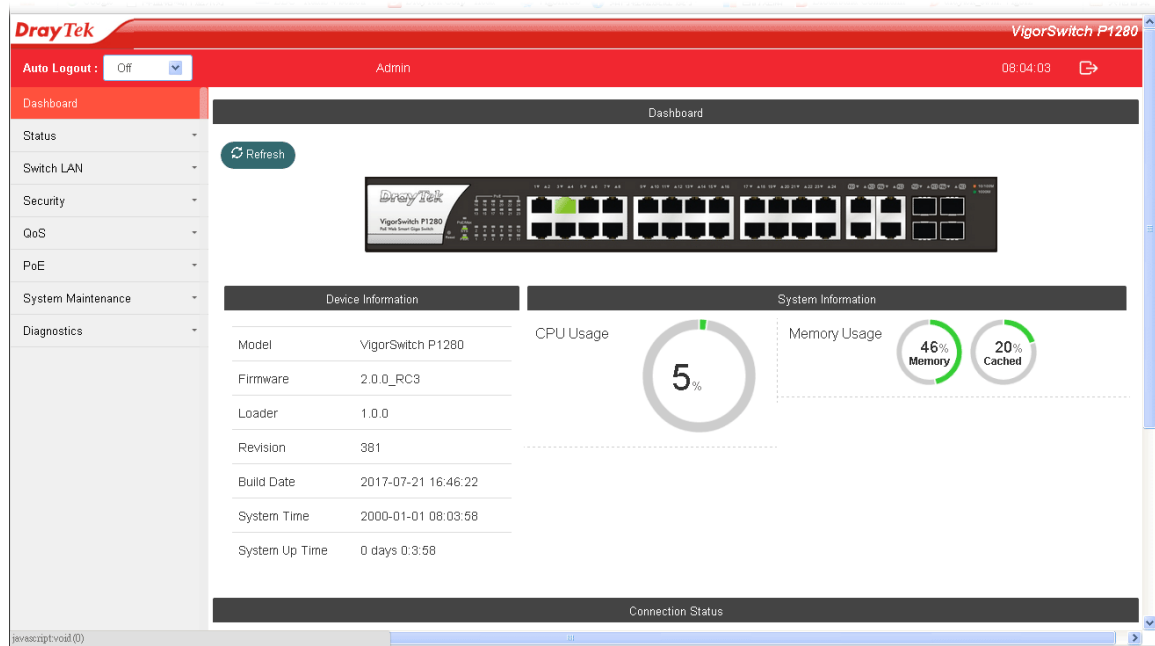
Customer Service

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.

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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.