

PPS250

User's Guide

External PoE Power Supply

Edition 1, 2/2010



ZyXEL

Device Panel



LEDs

FAN VENTS



POWER

FAN VENT

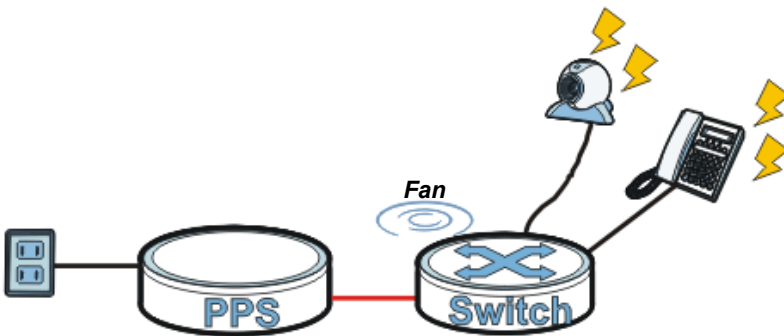
RPS CONNECTOR

Overview

The PPS250 is a power module for ZyXEL Ethernet Power-over-Ethernet (PoE) switches, such as the GS2200-24P. It provides additional external PoE power budget on top of the internal power budget of the switch. The switch supplies power to powered devices (PD) connected to it.

A powered device (PD) is a device such as an access point or a switch, that supports PoE (Power over Ethernet) so that it can receive power from another device through a 10/100/1000Mbps Ethernet port.

In the following figure, the PPS250 is connected to the switch so that it provides enough power to devices connected to it.



Aside from minimizing the need for cables and wires, PoE removes the hassle of trying to find a nearby electric outlet to power up devices. The PPS250 also ensures that the fans work continuously to prevent the switch from overheating. Once the PPS250 is connected to the GS2200-24P, the GS2200-24P can provide full power to each port (15.4 Watts).

Hardware Connections



The PPS250 is hot-swappable.

- 1. RPS CONNECTOR:** Use the RPS cable provided to connect the PPS250 to your ZyXEL switch as shown below.



The RPS connector should only be used with the PPS250. Do not insert other connector cables to the PPS250.

- 2. POWER:** Use the power adaptor provided to connect an appropriate power source to this socket. The LED light turns green once the PPS250 is ready.



The PPS250 can be used for the GS2200-24P only, and both of these devices should be used, repaired, and maintained by a qualified technician.

LEDs

After you connect the power to the PPS250, view the LEDs to ensure proper functioning of the PPS250 and as an aid in troubleshooting.

Table 1: LED Descriptions

LED	Color	Status	Description
PWR	Green	On	The system is turned on.
		Off	The system is off or has failed.
LNK	Green	On	There is a device connected.
		Off	No device connected.
PoE	Green	On	Power is supplied to a connected device.
		Off	There is no power supply.
ALM	Red	On	System failure due to overheating or abnormal fan operation.
		Off	The system is working normally.

Refer to the Quick Start Guide and User Guide of your switch for instructions on how to configure and use its other features.

Product Specifications

The following tables summarize the PPS250's hardware and firmware features.

Hardware Specifications	
Dimensions	280 mm (L) x 206 mm (W) x 44 mm (H)
Weight	2 kg
Input Power	100 - 240V ~ 50/60Hz 2.5A MAX, 225W
Output Power	49V $\overline{\text{---}}$, 4.6 A MAX.
Operation Temperature	0° ~ 50° C
Storage Temperature	-40° ~ 70° C
Humidity	10% ~ 95% (non-condensing)
MTBF	5 years (44,000hrs) at least (PSP-225-48OPD: 103Khrs)

EMI/Safety

Item	Description
Safety	CSA 60950-1 EN 60950-1 IEC 60950-1 UL 60950-1
EMC	FCC Part15 (Class A) CE EMC (Class A)

Safety Warnings

- Do NOT use this product near water, for example, in a wet basement or near a swimming pool.
- Do NOT expose your device to dampness, dust or corrosive liquids.
- Do NOT store things on the device.
- Do NOT install, use, or service this device during a thunderstorm. There is a remote risk of electric shock from lightning.
- Connect ONLY suitable accessories to the device.
- Ground yourself (by properly using an anti-static wrist strap, for example) whenever working with the device's hardware or connections.
- Make sure to connect the cables to the correct ports.
- Place connecting cables carefully so that no one will step on them or stumble over them.
- Always disconnect all cables from this device before servicing or disassembling.
- Use ONLY an appropriate power adaptor or cord for your device.
- Connect the power adaptor or cord to the right supply voltage (for example, 110V AC in North America or 230V AC in Europe).
- Do NOT allow anything to rest on the power adaptor or cord and do NOT place the product where anyone can walk on the power adaptor or cord.
- Do NOT use the device if the power adaptor or cord is damaged as it might cause electrocution.
- If the power adaptor or cord is damaged, remove it from the device and the power source.
- Do NOT attempt to repair the power adaptor or cord. Contact your local vendor to order a new one.
- Do not use the device outside, and make sure all the connections are indoors. There is a remote risk of electric shock from lightning.
- Do NOT obstruct the device ventilation slots, as insufficient airflow may harm your device.

- Your product is marked with this symbol, which is known as the WEEE mark. WEEE stands for Waste Electronics and Electrical Equipment. It means that used electrical and electronic products should not be mixed with general waste. Used electrical and electronic equipment should be treated separately.



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Certifications

1. Go to <http://www.zyxel.com>.
2. Select your product on the ZyXEL home page to go to that product's page.
3. Select the certification you wish to view from this page.

ZyXEL Limited Warranty

ZyXEL warrants to the original end user (purchaser) that this product is free from any defects in material or workmanship for a specific period (the Warranty Period) from the date of purchase. The Warranty Period varies by region. Check with your vendor and/or the authorized ZyXEL local distributor for details about the Warranty Period of this product. During the warranty period, and upon proof of purchase, should the product have indications of failure due to faulty workmanship and/or materials, ZyXEL will, at its discretion, repair or replace the defective products or components without charge for either parts or labor, and to whatever extent it shall deem necessary to restore the product or components to proper operating condition. Any replacement will consist of a new or re-manufactured functionally equivalent product of equal or higher value, and will be solely at the discretion of ZyXEL. This warranty shall not apply if the product has been modified, misused, tampered with, damaged by an act of God, or subjected to abnormal working conditions.

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Registration

Register your product online to receive e-mail notices of firmware upgrades and information at www.zyxel.com.

