

## RP-PG042

### 4-P PoE + 1UTP + 1-SFP Gigabit Ethernet Switch



RP-PG042 is a 6-port 10M/100M/1000M Gigabit Ethernet Switch with UTP x1, SFP x1 and 4 ports of Power over Ethernet capability. Per PoE port is power supply up to 30W. The total PoE power budget is 65W (120W optional). It is an ideal solution where office and home users utilize a combination of PoE and non-PoE enabled devices.

Four ports on the RP-PG042 are PoE enabled by PD detection control making it an ideal solution for most office users that have PoE enabled devices located around the office. These products can include a mixture of PoE IP Phones, PoE wifi APs and PoE IP Cam. RP-PG042 is the perfect answer for offices that are upgrading their office equipment and LAN infrastructure to include PoE capability. The switch is IEEE 802.3af/at compliant device connected and provides power and data over a single cable to these devices.

The RP-PG042 enables users to deploy a stable and reliable high-speed LAN environment, with store-and-forward switching architecture, packet error filtering and non-blocking packet forwarding. The 802.3x and backpressure flow control mechanisms work respectively for full and half duplex modes. This device supports N-way auto-negotiation protocol that automatically detects networking speed and duplex modes.

For instant error detection, the switch is equipped with a full range of LEDs to help monitor and troubleshoot problems on the network.

## Features

- Comply with IEEE 802.3 at/af PoE standard ,
- Support 30W maximum per PoE port
- Support over current protection and circuit shorting protection
- Support 10/100/1000Base-T applications
- Support 100/1000Mbps SFP Fiber Module Auto Detection
- Support MDI/MDI-X auto crossover
- Support extensive LED indicators for network diagnostics
- Wire-speed packet filtering and forwarding rate
- Store-and-forward architecture filter fragment & CRC error packets
- Supply suitable power to PoE PD terminals
- Automatic Detection and Protection of Non-standard Ethernet Terminals
- AC-in Internal Power

## Specification

<b>Standards</b>	<ul style="list-style-type: none"><li>• IEEE 802.3 10 BASE-T</li><li>• IEEE 802.3u 100 BASE-TX</li><li>• IEEE 802.3ab 1000Base-T</li><li>• IEEE 802.3z 1000Base-X Ethernet</li><li>• IEEE 802.3x Flow Control capability</li><li>• IEEE 802.3at/af Power Over Ethernet</li></ul>
<b>Interface</b>	<ul style="list-style-type: none"><li>• 4 x 10/100/1000Mbps RJ-45 802.3at PoE ports,</li><li>• 1 x 10/100/1000Mbps RJ-45 Uplink port,</li><li>• 1 x 100/1000Mbps SFP uplink port</li></ul>
<b>Switch Capacity</b>	<ul style="list-style-type: none"><li>• 12Gbps</li></ul>
<b>MAC addresses</b>	<ul style="list-style-type: none"><li>• 2K</li></ul>
<b>Buffer Memory</b>	<ul style="list-style-type: none"><li>• 2K</li></ul>
<b>Filtering/Forwarding Rates</b>	<ul style="list-style-type: none"><li>• 1000Mbps port - 1,488,000pps</li><li>• 100Mbps port - 148,800pps</li><li>• 10Mbps port - 14,880pps</li></ul>
<b>Transmission Media</b>	<ul style="list-style-type: none"><li>• 10BaseT Cat. 3, 4, 5 UTP/STP</li><li>• 100BaseTX Cat. 5 UTP/STP</li><li>• 1000BaseTX Cat. 5E/6/7 UTP/STP</li></ul>
<b>PoE Specification</b>	<ul style="list-style-type: none"><li>• PD classification identify</li><li>• PoE over current protection</li><li>• PoE circuit sorting protection</li><li>• PoE power on RJ-45 pin 1,2 for power + / pin 3,6 for power -</li></ul>
<b>PoE Power Budget</b>	<ul style="list-style-type: none"><li>• Per PoE port 30 W</li><li>• Max. 65W (RP-PG042)</li><li>• Max. 120W (RP-PG042F)</li></ul>
<b>LED Indicators</b>	<ul style="list-style-type: none"><li>• Power, LAN 1~6 port , PoE 1~4 port</li></ul>
<b>Power Supply</b>	<ul style="list-style-type: none"><li>• Internal Power Supply 100~240VAC, 50/60 Hz, 48~56VDC</li></ul>
<b>Environment</b>	<ul style="list-style-type: none"><li>• Operating temperature : 0°C to 40°C</li><li>• Operating Humidity: 10% to 90% (Non-Condensing)</li></ul>
<b>Dimension (WxHxD)</b>	<ul style="list-style-type: none"><li>• 160 x 44 x 122 mm</li></ul>
<b>Certification</b>	<ul style="list-style-type: none"><li>• FCC, CE</li></ul>

## Ordering information

**RP-PG042** 4-P PoE + 1UTP + 1-SFP slot Gigabit Ethernet Switch (65W)

**RP-PG042F** 4-P PoE + 1UTP + 1-SFP slot Gigabit Ethernet Switch (120W)