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Quick Installation Guide

PG-9141s-PoE
Powerline Ethernet Adapter
## with Power over Ethernet

Introduction

NOTE: An additional PowerGrid 9141s or 9141s-PoE unit and Ethernet cable are required for each additional device (e.g. PC, Camera, Access Point) you wish to connect to the network, with a minimum of 2 units required for setup.

A. Initial Setup

NOTE: This guide assumes that a PowerGrid 9141s will be the primary connection to the modem/router and a PowerGrid 9141s-PoE will be used within the network to connect to a PoE-capable device (e.g. Camera, Access Point, IP Phone).

1. Ensure that your modem or router is powered on.

2. Plug a PowerGrid 9141s unit into the power outlet closest to the modem/router. The **POWER LED** will blink **GREEN.**
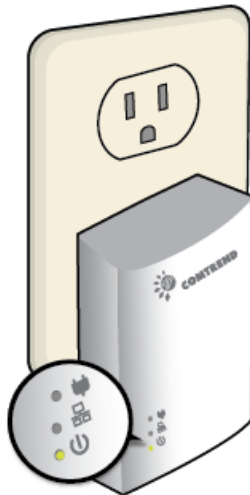

3. Connect the PowerGrid 9141s unit to the LAN port of the modem/router with an Ethernet (RJ-45) cable. Wait 10 seconds for the PowerGrid's **Ethernet LED** and **Power LED** to light up **GREEN** indicating a stable connection.
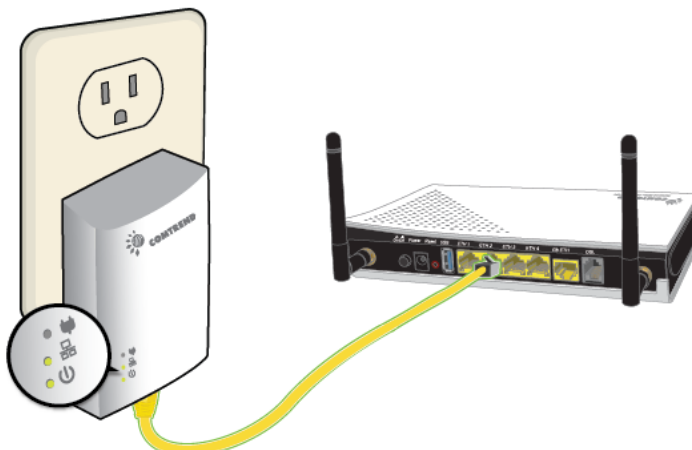
B. Device Connection

These steps show how to connect a PowerGrid 9141s-PoE to a network device. Below we use a PoE camera as a network device.

1. Plug a PowerGrid 9141s-PoE unit into the power outlet closest to the PoE(IEEE 802.3af compliant) camera or other device.The **Power LED** on the PowerGrid 9141s-PoE should light up **GREEN**.

2. Connect the PowerGrid 9141s-PoE to the camera with an Ethernet cable. The **Ethernet and PoE LEDs** on the PowerGrid 9141s-PoE should light up **GREEN**.
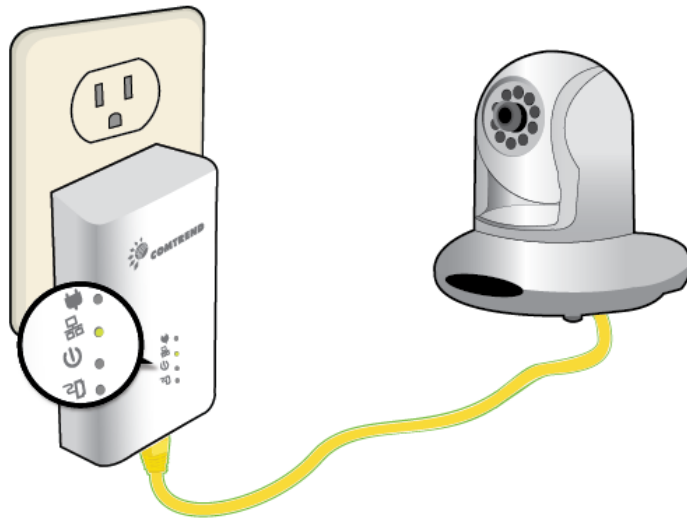
3. The **STATUS LED** on the PowerGrid 9141s-PoE (s) should now be **RED**,**GREEN** or **ORANGE**.

4. If the **STATUS LED** is not **GREEN**, press the **"Config"** button on each of the two PowerGrid 9141s and 9141s-PoE devices for 2-5 seconds. Upon successful connection of the PowerGrid 9141s-PoE, the **STATUS LED** will light up **Green**.

5. If the connection process is not successful, please refer to the trouble shooting steps in section D.

C. Adding a New Device

Follow steps 1-4 in Part B to add additional PowerGrid 9141s-PoE devices to the network. Press the **"Config**" button on the new device and one other PowerGrid device in the network so they can pair and transmit data successfully.

D. Troubleshooting

The following information should help you diagnose basic setup or installation problems.

	STATUS
	ETHERNET
	POWER
	PoE

1) POWER LED BLINKS AND OTHER LEDs are OFF: The **POWER LED** blinks and other LED lights switch off when PowerGrid 9141s-PoE(s) unit enters power saving mode. This occurs 30 seconds after the Ethernet connection is lost (see below).

2) ETHERNET LED is OFF: If the **Ethernet LED** fails to light up, check that the LAN port of the PowerGrid unit is connected firmly to the LAN port of the other device. To check the condition of the Ethernet cable, use another cable to test the same connection.

3)STATUS LED is OFF: Plug both PowerGrid units that you're attempting to pair into power outlets that are within the same room; both PowerGrid devices should have an Ethernet cable connected to their respective devices (e.g. PC, Router, Set Top Box, camera, etc…). After 10 seconds (approx, until all the LEDs of the device blink), the **STATUS LED** should light up GREEN. If not, press the "**Config"** button on each for 2-5 seconds and let go.

4) PoE LED is OFF: If the **PoE LED** fails to light up, check that the LAN port of the PowerGrid unit is connected firmly to the LAN port of the PoE device. Also, the PoE capable device needs to support the 802.3af standard and not other proprietary standards.
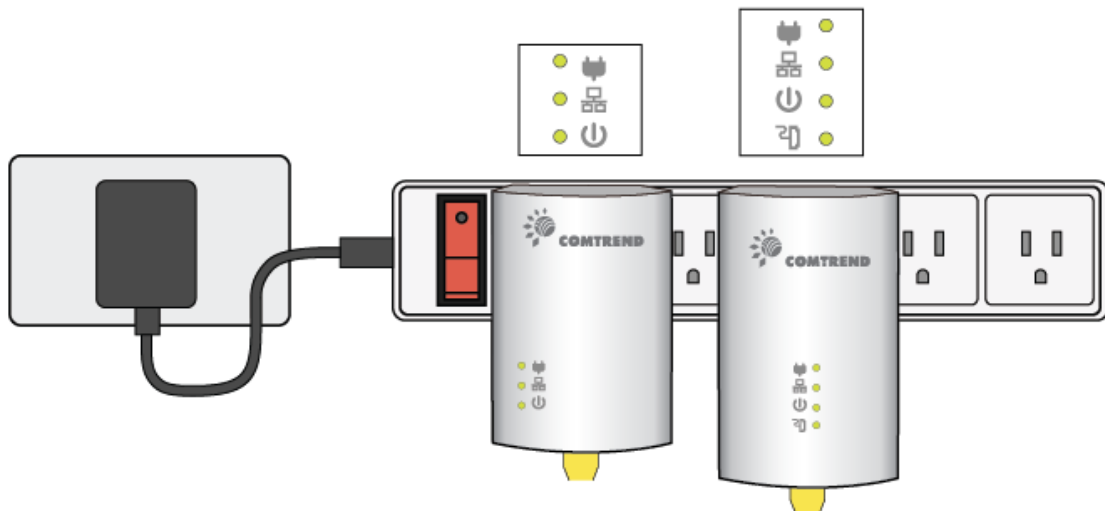
*If you have tried all of the above and are still experiencing problems, you can reset both devices (PG-9141s & PG-9141s-PoE) to factory default by using a pin to push in the "**Reset"** button for 11 seconds (until all the LEDs of the device blink).
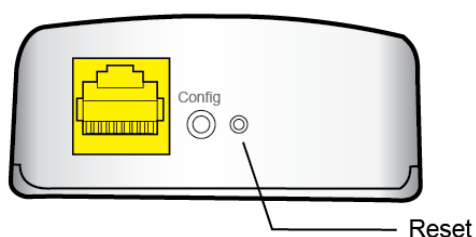
PG-9141s-PoE   **PG-9141s**
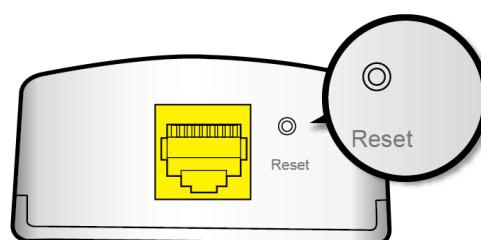
SURGE PROTECTED POWER STRIPS: Avoid plugging PowerGrid units into power strips with surge protection as this will reduce network speed and may even prevent their use.

FOR MORE HELP: If you have further questions or require personal assistance, please contact your equipment supplier or service provider.

NOTE: RJ45 PIN assignments for the PG-9141s-PoE.

RJ45 PINS	10/100 Mixed DC & Data (mode A)	RJ45 PINS	10/100 Mixed DC & Data (mode A)
Pin 1	Rx + / DC +	Pin 5	unused
Pin 2	Rx- / DC +	Pin 6	Tx - / DC -
Pin 3	Tx + / DC -	Pin 7	unused
Pin 4	unused	Pin 8	unused