tp-link DS108GPL Omada Unmanaged Desktop PoE+ Switch Installation Guide

Contents

Installation Guide Unmanaged Desktop PoE+ Switch

Product Information

Specifications

- Model: DS108GPL
- Power Supply: DC Power Adapter
- Power Consumption: < 64 W
- Number of Ethernet Ports: 8
- Number of PoE Ports: 4
- Supported Data Rates: 10/100/1000 Mbps

LED Explanation

The LEDs on the switch provide information about its status:

- **Power LED:** On – Power on, Off – Power off
- **Link/Act:**
  - Green On – Running at 1000 Mbps, but no activity.
  - Green Flashing – Running at 1000 Mbps and is transmitting or receiving data.

- Yellow On – Running at 10/100 Mbps, but no activity.
- Yellow Flashing – Running at 10/100 Mbps and is transmitting or receiving data.
- Off – No device is linked to the corresponding port.

- **PoE Status:**
  - On – Providing PoE power.
  - Flashing – PoE fault.
  - Off – Not providing PoE power.

Switches Explanation

The switches on the DS108GPL provide additional functionalities:

- **Extend:**
  - Off – Ports run at 10/100/1000 Mbps and support PoE power supply up to 100 m away.
  - On – Ports run at 10 Mbps and support PoE power supply up to 250 m away.
- **Recovery:**
  - Off – The PoE Auto Recovery function is disabled.
  - On – The switch will constantly detect the working status of a PoE powered device (PD). When the switch finds that the PD works abnormally, the switch will reboot it.

Connection

The DS108GPL can be connected as follows:

- **Internet:** Connect the DS108GPL to your internet source.
- **Ethernet Ports (1-8):** Connect devices such as PCs, IP cameras, APs, or IP phones to these ports using Ethernet cables.
- **Router:** Connect the DS108GPL to a router using an Ethernet cable.
- **WAN Port:** Connect the DS108GPL's WAN port to the router's LAN port using an Ethernet cable.
- **LAN Port:** Connect the DS108GPL's LAN port to a PC using an Ethernet cable.
- **PoE Ports (1-4):** Connect PoE devices such as IP cameras,APs, or IP phones to these ports using Ethernet cables.

Product Usage Instructions

Follow the steps below to use the DS108GPL:

Step 1: Installation

1. Connect the DC power adapter to the switch and plug it into a power outlet.
2. Connect the AC power cord to the switch and the power adapter.
3. Ensure that the Power LED is lit, indicating that the switch is powered on.

Step 2: Connection

1. Connect your internet source to the DS108GPL's Internet port using an Ethernet cable.
2. Connect devices such as PCs, IP cameras, APs, or IP phones to the Ethernet ports (1-8) using Ethernet cables.
3. If required, connect the DS108GPL to a router using an Ethernet cable.
4. If required, connect the DS108GPL's WAN port to the router's LAN port using an Ethernet cable.
5. If required, connect the DS108GPL's LAN port to a PC using an Ethernet cable.
6. Connect PoE devices such as IP cameras, APs, or IP phones to the PoE ports (1-4) using Ethernet cables.

Step 3: LED Monitoring

Monitor the LEDs on the switch to ensure proper functioning:

- Check that the Power LED is lit, indicating that the switch is powered on.
- Check that the Link/Act LEDs are lit when devices are connected and transmitting/receiving data.
- Check the PoE Status LED to ensure that PoE power is being provided correctly.

Frequently Asked Questions (FAQ)

Q1. The Power LED is not lit.
A1: Make sure the AC power cord is connected to the switch with the power source properly.
A2: Make sure the voltage of the power supply meets the requirements of the input voltage of the switch.
A3: Make sure the power source is on.

Q2. Why is the Link/Act LED not lit while a device is connected to the corresponding port?
A1: Make sure that the cable connectors are firmly plugged into the switch and the device.
A2: Make sure the connected device is turned on and working well.
A3: The cable must be less than 100 meters long (328 feet). If Extend Mode is enabled, it should be less than 250 meters (820 feet).

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LED Explanation

Power

- On: Power on
- Off: Power off

Link/Act; Uplink 1, Uplink 2

- Green On:
  Running at 1000 Mbps, but no activity.
- Green Flashing:
  Running at 1000 Mbps and is transmitting or receiving data.
- Yellow On:
  Running at 10/100 Mbps, but no activity.
- Yellow Flashing:

Running at 10/100 Mbps and is transmitting or receiving data.

- Off:
  No device is linked to the corresponding port.

PoE Status

- On: Providing PoE power Flashing: PoE fault
- Off: Not providing PoE power

PoE Max

- For DS108GPL:
  - **On:** 57 W≤Total power supply < 64 W Flashing: Total power supply ≥ 64 W
  - **Off:** Total power supply < 57 W
- For DS110GMP:
  - **On:** 116 W≤Total power supply < 123 W Flashing: Total power supply ≥ 123 W
  - **Off:** Total power supply < 116 W

Switches Explanation

Note: The numbers in brackets indicate the ports where the feature takes effect. For example, when Extend(1-4) is toggled to On, the Extend mode will be enabled for ports 1-4.

Extend (for DS108GPL/DS110GMP) Recovery (for DS108GPL/DS110GMP)

- **Off:** Ports run at 10/100/1000 Mbps and support PoE power supply up to 100 m away.
- **On:** Ports run at 10 Mbps and support PoE power supply up to 250 m away.

Priority (for DS110GMP)

- **Off:** All the ports transmit data with the same priority.
- **On:** The specific ports transmit data with a higher priority than other ports.

Recovery (for DS108GPL/DS110GMP)

- **Off:** The PoE Auto Recovery function is disabled.
  On: The switch will constantly detect the working status of a PoE powered device (PD). When the switch finds that the PD works abnormally, the switch will reboot it.

Isolation (for DS110GMP)

- **Off:** Ports can transmit data with each other.
- **On:** Specific ports cannot transmit data with other downlink ports. They can transmit data only with the uplink ports.

Note: For simplicity, we will take DS108GPL for example throughout the Guide.

Connection

Note:

1. PoE ports can also connect to non-PoE devices, but only transmit data.
2. DS110GMP has two uplink ports, which typically connect to uplink devices like routers.
3. The combo port of DS110GMP consists of one RJ45 port and one SFP slot, which cannot be used simultaneously.
4. The SFP slot of DS110GMP needs to work with a gigabit SFP module.

Frequently Asked Questions (FAQ)

Q. The Power LED is not lit.

The Power LED should be lit when the power system is working normally. If the Power LED is not lit, please check as follows:
A: Make sure the AC power cord is connected the switch with power source properly.

- Make sure the voltage of the power supply meets the requirements of the input voltage of the switch.
- Make sure the power source is on.

Q. Why is the Link/Act LED not lit while a device is connected to the corresponding port?

It is recommended that you check the following items:
A: Make sure that the cable connectors are firmly plugged into the switch and the device.

- Make sure the connected device is turned on and working well.
- The cable must be less than 100 meters long (328 feet). If Extend Mode is enabled, it should be less than 250 meters (820 feet).

Q. Why is PoE/PoE+ Port not supplying power for PoE devices?
When the total power consumption of connected PoE devices exceeds the maximum, the PoE port with a smaller port number has a higher priority. The system will cut off power to the ports with larger port numbers to ensure supplying to other ports.
Take DS108GPL as an example. If port 1, 2 and 4 are consuming 15.4 W respectively, and an additional PoE device with 20 W is connected to port 3, the system will cut off the power of port 4 to compensate for the overload.

Q. What should I notice before using the PoE Auto Recovery feature?

A: Before upgrading a connected PoE powered device (PD), disable PoE Auto Recovery to avoid the PD's damage.

- When a PD does not send data packets to the switch for a long period in certain scenarios (e.g. an IPC in sleep mode), disable PoE Auto Recovery to avoid the PD repeatedly rebooting.

Specifications

General Specifications

Environmental and Physical Specifications

- Operating Temperature 0˚C to 40˚C (32˚F to 104˚F)
- Storage Temperature -40˚C to 70˚C (-40˚F to 158˚F)
- Operating Humidity 10% to 90%RH non-condensing
- Storage Humidity 5% to 90%RH non-condensing

To ask questions, find answers, and communicate with TP-Link users or engineers, please visit **https://community.tp-link.com** to join TP-Link Community.
For technical support and other information, please visit **https://www.tp-link.com/support**, or simply scan the QR code.

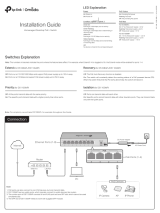
EU declaration of conformity
TP-Link hereby declares that the device is in compliance with the essential requirements and other relevant provisions of directives 2014/30/EU, 2014/35/EU, 2011/65/EU and (EU)2015/863.
The original EU declaration of conformity may be found at **https://www.tp-link.com/en/support/ce/**

UK declaration of conformity
TP-Link hereby declares that the device is in compliance with the essential requirements and other relevant provisions of the Electromagnetic Compatibility Regulations 2016 and Electrical Equipment (Safety) Regulations 2016.
The original UK declaration of conformity may be found at **https://www.tp-link.com/support/ukca**

Safety Information

- Keep the device away from water, fire, humidity or hot environments.
- Do not attempt to disassemble, repair, or modify the device. If you need service, please contact us.
- Place the device with its bottom surface downward.
- Do not use damaged charger or USB cable to charge the device.
- Do not use any other chargers than those recommended.
- Adapter shall be installed near the equipment and shall be easily accessible.
- The plug on the power supply cord is used as the disconnect device, the socket-outlet shall be easily accessible.

Documents / Resources

	tp-link DS108GPL Omada Unmanaged Desktop PoE+ Switch [pdf] Installation Guide DS108GPL Omada Unmanaged Desktop PoE Switch, DS108GPL, Omada Unmanaged Desktop PoE Switch, Unmanaged Desktop PoE Switch, Desktop PoE Switch, PoE Switch, Switch

References

- TP-Link Community
- CE Regulatory Compliance | TP-Link
- Support | TP-Link Australia
- Regulatory Compliance | TP-Link
- User Manual