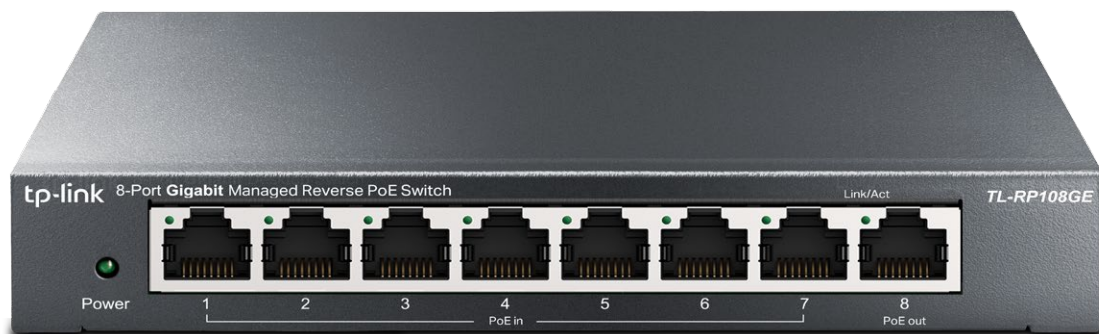# 8-Port Gigabit Managed Reverse PoE Switch

MODEL: TL-RP108GE Datasheet

Overview

TL-RP108GE is an 8-port Gigabit Managed Reverse PoE Switch. It supports Passive PoE, which can supply power to the device deployed in the place with no or limited power sockets.

With 7 PoE in ports, TL-RP108GE can receive power from users' homes to supply to the switch itself and connected PDs. It also has a PoE out port, which can supply power to CPE and other devices that support Passive PoE. The DC port of TL-RP108GE is an output port, which supports output voltages of 5V/12V and can supply power for ONT, switch, and other equipment.

TL-RP108GE can be managed via web browser or Utility. Administrators can effctively monitor traffic via Port Mirroring, Loop Prevention and Cable Diagnostics features. To optimize traff on your business network, TL-RP108GE offer Port-based/802.1p/DSCP QoS to keep latency-sensitive traffic moving smoothly and jitter-free. To improve security and meet more network segmentation requirements, it supports port-based, tag-based and MTU VLAN. Additionally, with its innovative energy-effient technology, it is an eco-friendly choice for your business network.

Easy To Use

Connecting devices to TL-RP108GE is simple. Auto MDI/MDI-X crossover on all ports eliminates the need for crossover cables or uplink ports. Auto-negotiation on each port detects the link speed of network devices and intelligently adjusts settings for compatibility and optimal performance.

Durable Metal Casing

The interior components of TL-RP108GE are protected by high-quality metal casing to ensure a long product life. Having passed an array of stringent reliability tests, TL-RP108GE delivers switching performance you can depend on. Its compact size makes it ideal for deployment on desktops or work benches.

Abundant Software Features

TL-RP108GE excels not only in simple plug-and-play networks, but also in more demanding environments.
• 802.1p and DSCP QoS ensure smooth traffic.

• Network monitoring enables users to observe traffic behavior.

• Port Mirroring, Loop Prevention and Cable Diagnostics allow connection problems on your network to be identified and located.

• Port/802.1p/DSCP QoS: Designate the priority of the traffic, for example, to ensure that voice and video applications remain clear and lag-free.

• MTU VLAN, port-based VLAN and 802.1Q-based VLAN: Meet more network segmentation requirements and provide a more secure network.

Go Green with Your Ethernet

TL-RP108GE makes use of innovative energy-saving technologies. Power consumption automatically adjusts according to the link status and cable length, allowing you to expand your network while minimizing your carbon footprint. Protect the planet and lower your energy bills — it's a win-win!

Specifications

Hardware Features & Performance		
	Product Picture	
	Model	TL-RP108GE
General	Interfaces	**7 Passive PoE-in RJ45 Ports:** 10/100/1000Mbps Auto-Negotiation Voltage: 24/48 V (mixture is not supported) Power pin of Ethernet cable: 4/5+ 7/8- **1 Passive PoE-out RJ45 Port:** 10/100/1000Mbps Auto-Negotiation Voltage: depending on the input voltage of PoE-in ports Power pin of Ethernet cable: 4/5+ 7/8- **1 DC Output Port:** Voltage: 5/12 V
	Mounting	Desktop/Wall Mounting
Performance	Switching Capacity	16 Gbps
	Forwarding Rate	11.9 Mpps
	MAC Address Table	4K
	Jumbo Frame	16 KB
Physical & Environment	Maximum Power Consumption	3.98 W (no PD connected) 18.01 W (24 V voltage with PD connected) 32.74 W (48 V voltage with PD connected)
	Maximum Heat Dissipation	13.57BTU/h (no PD connected) 61.41BTU/h (24 V voltage with PD connected) 111.64BTU/h (48 V voltage with PD connected)
	Dimensions (W×D×H)	6.2 x 3.9 x 1.0 in. (158 x 99.1x 25 mm)
	Fan Quantity	Fanless
	Operating Temperature	0 ℃–40 ℃ (32 ℉–104 ℉)
	Storage Temperature	-40 ℃–70 ℃ (-40 ℉–158 ℉)
	Operating Humidity	10%–90%RH, non-condensing
	Storage Humidity	5%–90%RH, non-condensing
	Certification	CE, FCC

Software Features	
L2 Features	• IGMP Snooping
	• Static Link Aggregation
	• Port Mirroring
	• Loop Prevention
VLAN	• 32 VLANs (out of 4K VLAN IDs)
	• MTU/Port/802.1Q VLAN
QoS	• 4 Priority Queues
	• 802.1p/DSCP QoS
	• Rate Limit
	• Storm Control
Management	• Web-based Graphic User Interface (GUI)
	• Easy Smart Configuration Utility

Disclaimer:

1. When the reverse switch functions, do not use the alternation switch to change output voltage of the DC output port, and do not plug in or plug out cables connected to port 1–8.
2. It is recommended to use PoE injectors with overcurrent protection.
3. The input voltage of PoE-in ports should be higher than 18 V and lower than 51 V.
4. When the input voltage of port 1–7 is 24 V (±5%), the total output power should be ≤10 W, the maximum output current of DC out is 1.2 A/5 V and 0.8 A/12 V. When the input voltage of port 1–7 is 48 V (±5%), the total output power should be ≤ 26 W, the maximum output current of DC out is 0.9 A/5 V and 1.0 A/12 V.
5. The device connected to port 8 should support passive PoE, otherwise, the impedance between pair 4&5 and pair 7&8 should be higher than 1 MΩ.

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