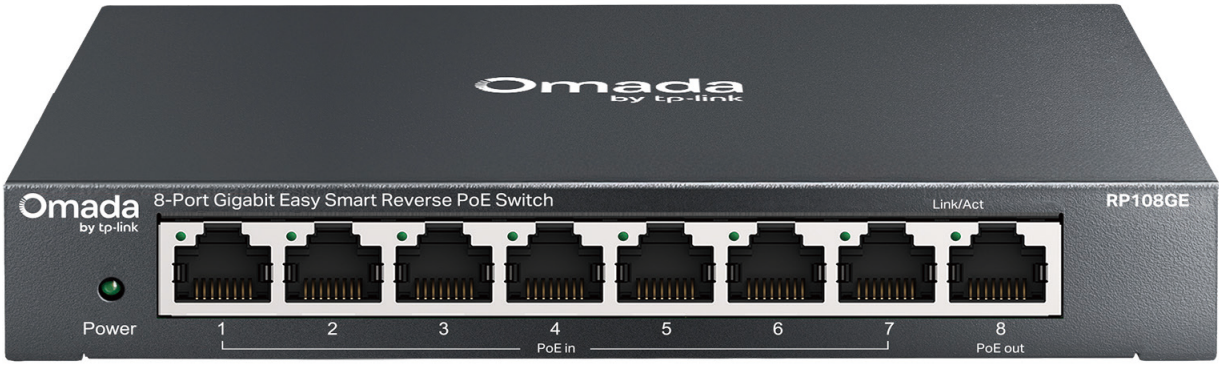
Omada Reverse PoE Switch | Datasheet

RP108GE

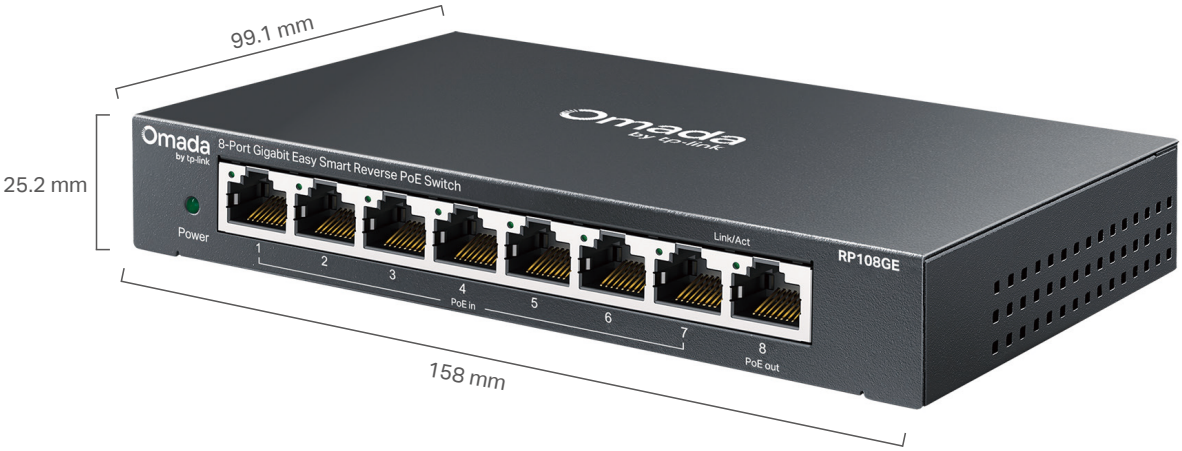
Omada 8-Port Gigabit Reverse PoE Switch

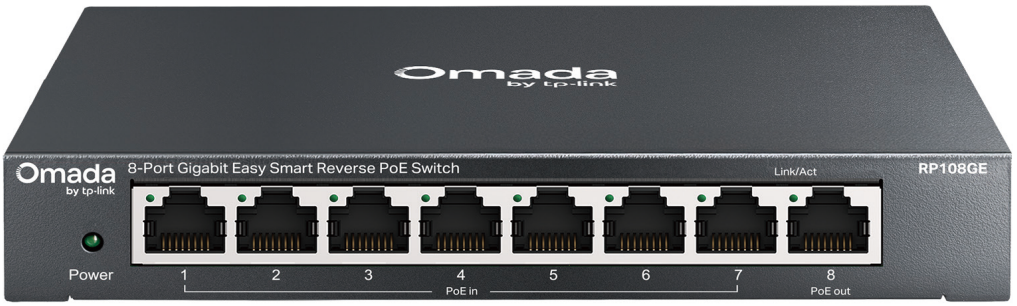


Highlights

- 7 PoE input and 1 PoE output 10/100/1000 Mbps RJ45 Ports
- 1 DC output port that supports both 5V and 12 V voltage switching
- Durable metal casing of superior quality and professional appearance
- Intelligent management via a web user interface and downloadable utility
- Green technology reduces power consumption

Product Pictures





7 × Passive PoE-in RJ45 Ports

1 × Passive PoE-out RJ45 Port

5V/12V
Voltage Switch

DC Output Port

Specifications

Hardware Features & Performance		
Model		RP108GE
General	Interface	**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
	Flash	2 MB
	Port Standard	IEEE 802.3: Ethernet Media Access Control (MAC) Protocol IEEE 802.3i:10BASE-T Ethernet IEEE 802.3u:100BASE-X Fast Ethernet IEEE 802.3ab:1000BASE-T Gigabit Ethernet IEEE 802.3x: Flow Control IEEE 802.1p: Traffic Class Expediting and Dynamic Multicast Filtering IEEE 802.1q: Virtual Bridged Local Area Networks
PoE	PoE- out Port	Port 8
	PoE Power Budget	10 W (Output voltage: 24V) 26 W (Output voltage: 48V)
Performance	Switching Capacity	16 Gbps
	Packet Forwarding Rate	11.9 Mpps
	MAC Address Table	4K
	Packet Buffer	1.5 Mbit
	Transmission Method	Store and Forward
	Jumbo Frame	16 KB
Physical & Environment	Power Supply	24 V / 0.72 A or 48 V / 0.72 A
	Max 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)
	Max Heat Dissipation	13.57 BTU/h (no PD connected) 61.41 BTU/h (24 V voltage with PD connected) 111.64 BTU/h (48 V voltage with PD connected)
	MTBF	518132 h @ 25°C
	Dimensions (W x D x H)	6.2 x 3.9 x 1.0 in. (158 x 99.1x 25.2 mm)
	Fan Quantity	Fanless
	Installation	Desktop / Wall Mounting
	Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
	Storage Temperature	-40 °C to 70 °C (-40 °F to 158 °F)
	Operation Humidity	10% to 90% RH, non-condensing
	Storage Humidity	5% to 90% RH, non-condensing

Physical & Environment	Surge Protection	±2 kV in common mode for Ethernet ports
	ESD Protection	Air: ±8 kV, Contact: ±4 kV
	Certification	CE, FCC, RoHS

Software Features

Model	RP108GE
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

Disclaimers:

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.