

TP-Link TL-SG1005P V5

5-Port Gigabit Desktop Switch with 4-Port PoE+

Highlights

- 5× 10/100/1000 Mbps RJ45 ports
- 4 PoE+ ports transfer data and power over a single cable
- Works with IEEE 802.3af/at compliant PDs
- Up to 30 W per PoE port — total 65 W PoE budget*
- Extend Mode: up to 250 m data + power transmission range**
- PoE Auto Recovery automatically reboots dropped or unresponsive PD devices
- 802.1p/DSCP QoS for smooth latency-sensitive traffic
- IGMP Snooping + Green Ethernet
- Plug and Play — no configuration or installation required

Overview

The TL-SG1005P V5 is a 5×10/100/1000 Mbps unmanaged switch that requires no configuration and provides 4 PoE (Power over Ethernet) ports. It automatically detects and supplies power to all IEEE 802.3af/at compliant Powered Devices (PDs), transmitting power and data over a single cable — ideal for APs, IP cameras, and IP phones where power outlets are not available. The V5 revision adds Extend Mode (up to 250 m) and PoE Auto Recovery. Durable metal casing, fanless silent operation, and desktop or wall-mounting design.

Specifications

Model	TL-SG1005P V5
Standards	IEEE 802.3, 802.3i, 802.3u, 802.3ab, 802.3x, 802.1p, 802.3af, 802.3at
Interface	5× 10/100/1000 Mbps RJ45 ports with 4 PoE+ ports (Port 1–Port 4); AUTO Negotiation / AUTO MDI/MDIX
Network Media	10BASE-T: Cat3/4/5 (max 100 m); 100BASE-TX: Cat5+ (max 100 m); 1000BASE-T: Cat5e+ (max 100 m)
PoE Ports (RJ45)	Standard: 802.3af/at; PoE Ports: 1–4, up to 30 W per port; PoE Power Budget: 65 W
Extend Mode	Ports 1–2 (up to 250 m; speed downgrades to 10 Mbps)
PoE Auto Recovery	Ports 1–4
Transmission Method	Store-and-Forward
Switching Capacity	10 Gbps
Packet Forwarding Rate	7.44 Mpps
MAC Address Table	2K
Packet Buffer	1 Mbit
Jumbo Frame	16 KB
Advanced Features	802.3af/at compatible; MAC auto-learning/aging; 802.3x flow control; 802.1p/DSCP QoS; IGMP Snooping; Green Ethernet
Fan Quantity	Fanless
External Power Supply	External power adapter (Output: 53.5 VDC / 1.31 A)
Max Power Consumption	74.54 W (220 V/50 Hz, with 65 W PD connected)
Max Heat Dissipation	254.18 BTU/h (with 65 W PD connected)
Dimensions (W×D×H)	99.8 × 98 × 25 mm (3.9 × 3.9 × 1.0 in.)

Mounting	Desktop / wall-mountable
Certification	FCC, CE, RoHS
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% non-condensing
Storage Humidity	5% to 90% non-condensing
Package Contents	Switch, Power Adapter, Installation Guide

*PoE budget calculations are based on laboratory testing. Actual PoE power budget is not guaranteed and will vary as a result of client limitations and environmental factors.

**The speed of the ports in Extend Mode downgrades to 10 Mbps. Actual transmission distance may vary due to the power consumption of PoE-powered devices or the cable quality and type.

Source: Official TP-Link datasheet — TL-SG1005P(UN) V5.0 (published 2025-01-10). Specifications are subject to change without notice. © TP-Link. This PDF is a faithful reproduction of the official datasheet content, recompiled for internal reference.