

# 48-Port Gigabit Rackmount Switch

MODEL: TL-SG1048 Datasheet



## Highlights

- 48 10/100/1000Mbps RJ45 ports
- Innovative energy-efficient technology saves power
- Supports MAC address self-learning and auto MDI/MDIX
- Standard 19-inch rack-mountable steel case

## Overview

The TL-SG1048 Gigabit Ethernet Switch provides you with a high-performance, low-cost, easy-to-use, seamless and standard upgrade to improve old network to 1000Mbps network. All 48 ports support auto MDI/MDIX, no need to worry about the cable type, simply plug and play. Moreover, with the innovative energy-efficient technology, the TL-SG1048 can save power consumption, making it an eco-friendly solution for your business network.

## TP-Link Green Technology

The 48-Port Gigabit Rackmount Switch TL-SG1048 features the latest innovative energy-efficient technologies that can greatly expand your network capacity with much less power. It automatically adjusts power consumption according to the link status to limit the carbon footprint of your network. It also complies with the EU's RoHS, prohibiting the use of certain hazardous materials. Besides, most packaging material can be recycled.

## High Performance

All 48 ports are Gigabit RJ-45 ports which can provide large file transferring and also be compatible with 10Mbps and 100Mbps Ethernet devices. Featuring non-blocking switching architecture, TL-SG1048 forwards and filters packets at full wire-speed for maximum throughput. With 12KB Jumbo frame, the performance of large-file transfers is improved significantly. And IEEE 802.3x flow control for Full Duplex mode and backpressure for Half Duplex mode alleviate the traffic congestion and make TL-SG1048 work reliably. It's a perfect choice to update your network to Gigabit while protecting your previous investment properly.

## Easy to Use

The auto features of this gigabit switch make installation plug and play and hassle-free. No configuration is required. Auto MDI/MDIX eliminates the need for crossover cables. Auto-negotiation on each port senses the link speed of a network device (10, 100, or 1000 Mbps) and intelligently adjusts for compatibility and optimal performance.

## Specifications

| Features & Performance |                                                                                                                                                                                              |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Picture        |                                                                                                             |
| Model                  | TL-SG1048                                                                                                                                                                                    |
| Standards              | IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x                                                                                                                                          |
| Forwarding Mode        | Store and Forward                                                                                                                                                                            |
| Interface              | 48*10/100/1000 Mbps RJ45 ports<br>Auto Negotiation<br>Auto MDI/MDIX                                                                                                                          |
| Switching Capacity     | 96 Gbps                                                                                                                                                                                      |
| MAC Address Table      | 16 K                                                                                                                                                                                         |
| Packet Forwarding Rate | 71.4 Mpps                                                                                                                                                                                    |
| Jumbo Frame            | 12KB                                                                                                                                                                                         |
| Advanced Features      | Green Technology<br>802.3x Flow Control                                                                                                                                                      |
| Max Power Consumption  | 28.21 W (220 V/50 Hz)                                                                                                                                                                        |
| Max Heat Dissipation   | 96.20 BTU/h                                                                                                                                                                                  |
| LEDS                   | Power, Speed, Link and Activity                                                                                                                                                              |
| Power Supply           | 100-240 V, 50/60 Hz                                                                                                                                                                          |
| Dimensions             | 17.3*8.7*1.73 in. (440*220*44 mm)                                                                                                                                                            |
| Certifications         | CE, FCC, RoHS                                                                                                                                                                                |
| Environment            | Operating Temperature: 0°C–40°C (32°F–104°F)<br>Storage Temperature: -40°C–70°C (-40°F–158°F)<br>Operating Humidity: 10%–90%RH, non-condensing<br>Storage Humidity: 5%–90%RH, non-condensing |

## Ordering Information

| Product Model | Description                      |
|---------------|----------------------------------|
| TL-SG1048     | 48-Port Gigabit Rackmount Switch |

[www.tp-link.com](http://www.tp-link.com)

Specifications are subject to change without notice. All brands and product names are trademarks or registered trademarks of their respective holders. © 2023 TP-Link