

# 16/24-Port Gigabit Switch

MODELS: TL-SG1016D/ TL-SG1024D Datasheet



## Overview

The TL-SG1016D/TL-SG1024D Gigabit Ethernet Switch represents a high-performance, low-cost, simple, seamless, and standardized upgrade that allows you to transform your existing network and achieve 1000Mbps speeds. All 16/24 ports support auto MDI/MDIX, so there is no need to worry about cable types. Simply plug and play. With the innovative energy-efficient technology, the TL-SG1016D/TL-SG1024D can reduce power consumption and the vast majority of its packaging material can be recycled, making it an eco-friendly solution for your business network.

## TP-Link Green Technology

The new TL-SG1016D/TL-SG1024D Gigabit Switch features a variety of energy-efficient technologies that allow you to increase your network capacity while consuming less power. The switch limits the carbon footprint of your network by automatically adjusting power consumption in accordance with link status and cable length. It complies with the EU RoHS, which prohibits the use of certain hazardous materials, and most of the packaging material is recyclable.

## Enhanced Performance

All 16/24 ports are Gigabit RJ-45 ports, allowing them to support large file transfers and makes them compatible with 10Mbps and 100Mbps Ethernet devices. Since both switches feature a non-blocking switching architecture, the TL-SG1016D and TL-SG1024D forward and filter packets at full wire-speed, achieving maximum throughput. 10KB Jumbo frame significantly improves performance during large file transfers. IEEE 802.3x flow control supports Full Duplex mode and backpressure for Half Duplex mode alleviates traffic congestion to make the TL-SG1016D/TL-SG1024D more reliable. This makes the TL-SG1016D/TL-SG1024D a perfect choice for upgrading your network to Gigabit speed while protecting your previous investment.

## Easy of Use

The automated features of this gigabit switch make installation 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 network devices (10,100, or 1000 Mbps) and intelligently adjusts for compatibility and optimal performance.

# Specifications

## Features & Performance

|                      |                         |  |   |
|----------------------|-------------------------|--|---|
| Product Picture      |                         |   |  |
| Model                |                         | TL-SG1016D   | TL-SG1024D  |
| Hardware Features    | Standards and Protocols | IEEE 802i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, IEEE 802.1p   |   |
|                      | Interface               | 16 10/100/1000Mbps RJ45 Ports, Auto Negotiation/Auto MDI/MDIX  | 24 10/100/1000Mbps RJ45 Ports, Auto Negotiation/Auto MDI/MDIX                       |
|                      | Forwarding Mode         | Store-and-Forward  |   |
|                      | Network Media           | 10BASE-T: UTP category 3, 4, 5 cable (maximum 100m)<br>100BASE-TX/1000BASE-T: UTP category 5, 5e or above cable (maximum 100m) |   |
|                      | Power Supply            | 100-240VAC, 50/60Hz  |   |
|                      | Green Technology        | Yes  |   |
|                      | 802.1p/DSCP QoS         | Yes  |   |
|                      | LED                     | Power, 1000Mbps, Link/Act  |   |
|                      | Dimensions              | 11.6*7.1*1.7 in. (294*180*44 mm)   |   |
|                      | Fanless                 | Yes  |   |
| Performance          | Switching Capacity      | 32Gbps   | 48Gbps  |
|                      | Packet Forwarding Rate  | 23.8Mpps   | 35.7Mpps  |
|                      | MAC Address Table       | 8K   |   |
|                      | Jumbo Frame             | 10KB   |   |
|                      | Max Power Consumption   | 9.95W (220V/50Hz)  | 13.78 W (220V/50Hz)   |
|                      | Max Heat Dissipation    | 33.93 BTU/h  | 46.99 BTU/h   |
| Certification        |                         | CE, FCC, RoHS  |   |
| Environment          | Operating Temperature   | 0°C~40°C (32°F~104°F)  |   |
|                      | Storage Temperature     | -40°C~70°C (-40°F~158°F)   |   |
|                      | Operating Humidity      | 10%~90%RH non-condensing   |   |
|                      | Storage Humidity        | 5%~90%RH non-condensing  |   |
| Ordering Information |                         | 16-Port Gigabit switch   | 24-Port Gigabit switch  |