

TP-SG1024D

TP-link TP-SG1024D 24-port Gigabit Desktop / Rackmount Switch

Product Overview

TP-link TP-SG1024D 24-port Gigabit Ethernet switch; 24 x 10/100/1000Mbps RJ45 ports; 48Gbps switching capacity; 35.7Mpps forwarding rate; fanless; 10KB Jumbo Frame; 8K MAC table; rackmountable; 294 x 140 x 44 mm; unmanaged; plug and play



Specifications

About this product

The TP-Link TL-SG1024D is a 24-port Gigabit Ethernet switch designed to expand wired network connectivity for homes, offices and business networks. It provides 24 x 10/100/1000Mbps RJ45 ports, 48Gbps switching capacity, fanless operation and plug and play installation, with desktop or rackmount deployment. Buy this Gigabit network switch for reliable high-speed wired connectivity and easy network expansion.

Overview Summary

TP-Link TL-SG1024D 24-Port Gigabit Desktop/Rackmount Switch

The TL-SG1024D provides 24 Gigabit Ethernet ports for connecting computers, printers, access points, storage devices, cameras and other compatible wired network equipment. Each RJ45 port supports 10Mbps, 100Mbps and 1000Mbps Ethernet with automatic speed negotiation and Auto MDI/MDIX, helping simplify installation without requiring crossover cables.

With a 48Gbps switching capacity and 35.7Mpps packet forwarding rate, the switch uses a non-blocking switching architecture and store-and-forward transmission for efficient network traffic handling. Its fanless design provides silent operation, while the rackmount form factor allows installation in compatible network cabinets or racks.

Performance tier:Gigabit business and home network expansion

Uses:office networks, home networks, small business networks, wired device expansion, network storage, printers, access points

Description

The TP-Link TL-SG1024D is an unmanaged 24-port Gigabit Ethernet switch designed to provide a straightforward way to expand a wired network. Its 24 x 10/100/1000Mbps RJ45 ports support automatic negotiation, allowing connected devices to operate at their supported Ethernet speed.

The switch is designed for high-speed data transfer with a 48Gbps switching capacity and a 35.7Mpps packet forwarding rate. Its non-blocking switching architecture allows packets to be forwarded and filtered at wire speed, while the 10KB Jumbo Frame capability can improve the efficiency of large file transfers.

Installation is designed to be simple because the switch does not require complex configuration. Auto MDI/MDIX removes the need to select between standard and crossover Ethernet cables, while auto-negotiation detects the connected link speed automatically.

The fanless construction helps provide quiet operation without a cooling fan. The unit can be used on a desktop or installed in a compatible rack using the supplied rackmount hardware. TP-Link energy-efficient technology automatically adjusts power consumption according to link status to help reduce unnecessary power usage.

The TL-SG1024D also provides MAC address self-learning, IEEE 802.3x flow control, loop prevention and Isolation Mode on ports 1-22. These functions help the switch manage network traffic and reduce disruption from network loops. The 8K MAC address table provides capacity for learning connected network devices.

Features

The TL-SG1024D combines high port density, Gigabit Ethernet connectivity and simple unmanaged operation for networks that need additional wired ports.

- 24 x 10/100/1000Mbps RJ45 Gigabit Ethernet ports
- 48Gbps switching capacity
- 35.7Mpps packet forwarding rate
- Fanless design for quiet operation
- Plug and play installation with no configuration required
- Auto-negotiation automatically detects supported link speeds
- Auto MDI/MDIX eliminates the need for crossover cables
- MAC address self-learning
- 8K MAC address table
- 10KB Jumbo Frame support
- IEEE 802.3x flow control
- Loop Prevention on ports 1-24
- Isolation Mode on ports 1-22
- Non-blocking switching architecture
- Store-and-forward transmission method
- Energy-efficient technology adjusts power consumption according to link status
- Desktop and rackmount installation options

What This Product Does

The TL-SG1024D 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 24 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-SG1024D can save power consumption, making it an eco-friendly solution for your business network.

TP-LINK Green Technology

This new generation TL-SG1024D Gigabit Switch 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 of the packaging material can be recycled.

High Performance

All 24 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-SG1024D forwards and filters packets at full wire-speed for maximum throughput. With 10KB Jumbo frame, the performance of large files 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 The TL-SG1024D 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 configuring 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.

Loop Prevention

Monitor and address loop-related issues within your network structure to prevent disruptions caused by looping.

What's in the Box

- TP-Link TL-SG1024D 24-Port Gigabit Desktop/Rackmount Switch
- Power cord
- Installation guide
- Rackmount kits
- Rubber feet

Specifications

HARDWARE FEATURES	
Standards and Protocols	IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x
Interface	24 10/100/1000Mbps RJ45 Ports (Auto Negotiation/Auto MDI/MDIX)
Network Media	10BASE-T: UTP category 3, 4, 5 cable (maximum 100m)
	100BASE-TX/1000BASE-T: UTP category 5, 5e or above cable (maximum 100m)
Fan Quantity	Fanless
Physical Security Lock	No
Power Supply	100-240VAC, 50/60Hz
Dimensions (W x D x H)	11.6 x 5.5 x 1.7 in (294 x 140 x 44 mm)
Mounting	Rack Mountable

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Product Specification Sheet

Max. Power Consumption	13.62W(220V/50Hz)
Max Heat Dissipation	46.44BTU/h
PERFORMANCE	
Switching Capacity	48Gbps
Packet Forwarding Rate	35.7Mpps
MAC Address Table	8K
Advanced Features	Isolation Mode: Ports 1-22
	Loop Prevention: Ports 1-24
Jumbo Frame	10KB
Green Technology	Yes
Transmission Method	Store-and-Forward
OTHERS	
Certification	FCC, CE, RoHS
Package Content	24-Port Gigabit Desktop/Rackmount Switch
	Power Cord
	Installation Guide
	Rackmount Kits
	Rubber Feet
Environment	Operating Temperature: 0degreesC~40degreesC (32degreesF~104degreesF);
	Storage Temperature: -40degreesC~70degreesC (-40degreesF~158degreesF);
	Operating Humidity: 10%~90% non-condensing;
	Storage Humidity: 5%~90% non-condensing

FAQ

What is the TP-Link TL-SG1024D?

The TP-Link TL-SG1024D is an unmanaged 24-port Gigabit Ethernet switch with 24 x 10/100/1000Mbps RJ45 ports for expanding wired network connectivity.

How many devices can connect to the TL-SG1024D?

The switch provides 24 RJ45 Ethernet ports, allowing up to 24 wired network connections when all ports are used.

Does the TL-SG1024D support Gigabit Ethernet?

Yes. All 24 ports support 10Mbps, 100Mbps and 1000Mbps Ethernet with automatic speed negotiation.

Is the TP-Link TL-SG1024D easy to install?

Yes. It is an unmanaged plug and play switch that requires no network configuration for basic operation. Auto-negotiation and Auto MDI/MDIX simplify device and cable connections.

Can the TL-SG1024D be installed in a rack?

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Product Specification Sheet

Yes. The TL-SG1024D is rack mountable and includes rackmount kits. It can also be used as a desktop switch.

Is the TL-SG1024D fanless?

Yes. The switch uses a fanless design for quiet operation.

What is the switching capacity of the TL-SG1024D?

The TL-SG1024D has a 48Gbps switching capacity and a packet forwarding rate of 35.7Mpps.

Does the TL-SG1024D support Jumbo Frames?

Yes. The switch supports Jumbo Frames up to 10KB, which can help improve the efficiency of large file transfers.

What network cables are supported by the TL-SG1024D?

The switch supports UTP category 3, 4 or 5 cable for 10BASE-T, and UTP category 5, 5e or above cable for 100BASE-TX and 1000BASE-T, with a maximum cable length of 100m.

What is the TP-Link TL-SG1024D suitable for?

It is suitable for expanding wired connectivity in offices, homes, small businesses and other networks that require multiple Gigabit Ethernet connections.

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:

<https://www.comx-computers.co.za/TP-SG1024D-TP-link-TP-SG1024D-24-port-Gigabit-Desktop-Buy-p-173840.php>

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