ComX Computers
Product Specification Sheet

TP TL-SG1024D

TP-Link 24-Port Gigabit Desktop / Rackmount Switch

Product Overview

TP-Link TL-SG1024D 24 Port Gigabit Desktop / rackmount Switch, 24x GbE RJ45 Ports, Fanless, 48Gbps switching capacity









Specifications

Overview Summary:

Upgrade your network infrastructure with the TP-Link TL-SG1024D, a reliable 24-port Gigabit switch engineered for fast and stable performance. Designed specifically for small businesses and home offices in South Africa, this fanless device offers silent operation and plug-and-play convenience to keep your digital workspace running smoothly without noise or complex setup.

With a massive switching capacity of 48Gbps and support for large file transfers via Jumbo frames, it ensures seamless connectivity for all your devices. Its energy-efficient Green Technology helps reduce power costs while maintaining top-tier speed, making it an eco-friendly choice that delivers value now.

Performance tier: High-End

Uses: Network expansion, file server connection, VoIP support, video streaming, backup systems

Overview:

The TP-Link TL-SG1024D is a robust 24-port Gigabit Ethernet switch engineered to deliver high-speed connectivity for small businesses, home offices, and growing networks. This versatile device supports both desktop placement and standard 19-inch rackmount installation, offering flexibility in how it fits into your workspace. With a non-blocking switching capacity of 48Gbps, the TL-SG1024D ensures seamless data transfer across all connected devices without bottlenecks, making it an ideal choice for environments requiring reliable performance and scalability.

Designed with sustainability in mind, this switch incorporates TP-Link Green Technology to automatically adjust power consumption based on link status and cable length. It also features a fanless design that ensures silent operation, perfect for offices or studios where noise reduction is critical. The unit complies with EU RoHS standards and comes in packaging made of 80% recyclable materials, providing an eco-friendly solution without compromising on speed or reliability.

Description:

The TP-Link TL-SG1024D offers a powerful blend of performance and efficiency for network administrators. Its 24 Gigabit RJ45 ports support auto MDI/MDIX and flow control, ensuring compatibility with legacy 10Mbps and 100Mbps devices while delivering full wire-speed performance. The switch handles large file transfers efficiently via 10KB Jumbo frames and maintains stability through advanced congestion control mechanisms. Whether you need to upgrade your current infrastructure or build a new network from scratch, this plug-and-play device simplifies the process with zero configuration required.

Features:

Why Choose This Gigabit Switch
Upgrading to the TL-SG1024D provides immediate benefits in network speed and stability. The non-blocking architecture guarantees that every port can communicate at full capacity simultaneously, eliminating latency during heavy data usage. Auto-negotiation capabilities detect the optimal link speed for each connected device, removing the need for manual crossover cables or complex setup procedures. For users prioritizing energy savings, the intelligent power management system reduces electricity costs over time while maintaining consistent throughput.

The physical design of this unit is equally impressive, featuring a compact form factor that fits easily on a desk or slides securely into a server rack using the included hardware. The absence of cooling fans means there are no moving parts to fail and no noise to disturb your workspace. Combined with support for Jumbo frames and IEEE 802.3x flow control, this switch creates a robust environment for high-bandwidth applications like video streaming and large file sharing.

Key Features and Benefits:

- 24 Gigabit RJ45 ports with auto MDI/MDIX for universal device compatibility
- 48Gbps non-blocking switching capacity ensures maximum throughput
- Energy-efficient Green Technology automatically reduces power usage based on link status
- Fanless design provides silent operation ideal for quiet office environments
- Supports 10KB Jumbo frames for efficient large file transfers
- Plug-and-play setup with no configuration required for quick deployment
- Compatible with 10/100/1000Mbps devices including legacy hardware
- Rackmount-ready design with included kits for flexible installation

Technical Specifications:

The TL-SG1024D adheres to strict industry standards, ensuring compatibility and safety across various network environments. It operates on IEEE 802.3i, 802.3u, 802.3ab, and 802.3x protocols, supporting both full-duplex and half-duplex modes with advanced flow control to prevent data collisions.

HARDWARE FEATURES:

- Standards and Protocols: IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x
- Interface: 24 x 10/100/1000Mbps RJ45 Ports (Auto Negotiation/Auto MDI/MDIX)
- Network Media: Supports UTP Category 3, 4, or 5 for 10BASE-T; Category 5, 5e or above for 100/1000BASE-T
- Fan Quantity: Fanless
- Power Supply: 100-240VAC, 50/60Hz
- Dimensions (W x D x H): 11.6 x 7.1 x 1.7 inches (294 x 180 x 44 mm)

PERFORMANCE METRICS

- Switching Capacity: 48Gbps
- Packet Forwarding Rate: 35.7Mpps
- MAC Address Table: 8K entries
- Jumbo Frame Support: Up to 10KB
- Transfer Method: Store-and-Forward
- Green Technology: Yes

What's in the Box

- 24-Port Gigabit Desktop/Rackmount Switch
- Power Cord
- Installation Guide
- Rackmount Kits
- Rubber Feet

Specifications:

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Specifications	
Product Code	TP TL-SG1024D
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
Power Supply	100-240VAC, 50/60Hz
Power Consumption	Maximum: 13.1W (220V/50Hz)
Dimensions (W x D x H)	11.6*7.1*1.7 in. (294*180*44 mm)
PERFORMANCE	
Switching Capacity	48Gbps
Packet Forwarding Rate	35.7Mpps
MAC Address Table	8K
Jumbo Frame	10KB

Green Technology	Yes
Transfer Method	Store-and-Forward
OTHERS	
Certification	FCC, CE, RoHS
Package Contents	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

Can this switch be installed in a standard equipment rack?
The TP-Link TL-SG1024D supports both desktop and 19-inch rackmount installation, with rackmount kits included in the package for flexible deployment.

Does the device require cooling fans to operate properly?
No, this switch features a fanless design that ensures quiet operation without compromising performance, making it ideal for noise-sensitive environments like offices or studios.

What types of network cables are compatible with this unit?
The 24 RJ45 ports support UTP category 3, 4, or 5 cable for 10Mbps connections and UTP category 5, 5e or above for 100/1000Mbps speeds over distances up to 100 meters.

Is any software configuration required before setting up the switch?
No setup is needed as it features a plug-and-play design with auto MDI/MDIX and auto-negotiation, allowing for immediate connection without complicated configuration.

How does this switch handle power consumption and energy efficiency?
The device uses TP-Link Green Technology to automatically adjust power usage based on link status, keeping maximum consumption at 13.1W while complying with EU RoHS standards.

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-TL-SG1024D-TP-Link-24-Port-Gigabit-Desktop-Rackmount-Switch-p-342135.php

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