ComX Computers
Product Specification Sheet

TP TL-SG1008

TP-Link TL-SG1008 8 Port Gigabit Desktop / Rackmount Switch

Product Overview

TP-Link TL-SG1008 8 Port Gigabit Desktop / Rackmount Switch, 8x Gigabit RJ45 Ports, Fanless, 13" or 19" Rack mountable, 16Gbps switching capacity





Specifications

Overview Summary:

Upgrade your local area network with the TP-Link TL-SG1008, an 8-port Gigabit desktop and rackmount switch designed for reliable high-speed performance. This fanless device ensures silent operation while delivering seamless connectivity for small to medium-sized networks in South Africa. With its compact design and flexible mounting options, you can easily install it on a desk or within standard racks without worrying about noise or space constraints.

Experience plug-and-play simplicity with auto-negotiation features that require no configuration, making network expansion effortless for users of all skill levels. The energy-efficient technology adjusts power consumption based on cable length and link status, helping you reduce electricity costs while maintaining a low carbon footprint. Secure your infrastructure today by buying now to enjoy fast data transfer rates and robust traffic handling capabilities.

Performance tier: High Efficiency

Uses: Small office networking, home lab setups, server room expansion, point-to-point connections, network segmentation

Overview:

TP-Link TL-SG1008 8-Port Gigabit Switch Overview:

Elevate your network infrastructure with the TP-Link TL-SG1008, a versatile solution designed for both desktop and rackmount environments. This compact switch delivers reliable high-speed connectivity through eight dedicated Gigabit RJ45 ports, making it an ideal choice for small to medium-sized networks that demand speed without bulk. Its fanless design ensures silent operation, eliminating noise distractions in offices or home studios while maintaining optimal thermal performance.

Description:

The TL-SG1008 offers plug-and-play simplicity with auto MDI/MDIX functionality on all ports, removing the need for special crossover cables during setup. Built with TP-Link Green Technology, this unit intelligently adjusts power consumption based on cable length and link status to reduce energy costs and environmental impact. With a robust 16Gbps switching capacity and support for a 4K MAC address table, it handles high-volume traffic effortlessly while dynamic LED indicators provide real-time status updates for easy troubleshooting.

Features:

Seamless Gigabit Connectivity
All eight ports automatically detect and negotiate the optimal connection speed of 10/100/1000 Mbps for each connected device. This plug-and-play architecture allows immediate deployment without complex configuration, supporting both desktop setups with limited space and secure mounting in standard racks. The switch is compatible with IEEE standards including 802.3i, 802.3u, 802.3ab, 802.3x, and 802.1p for broad device compatibility.

Energy-Efficient Network Solution
This model incorporates advanced power management to minimize electricity usage without compromising performance. The design complies with RoHS standards and utilizes recyclable packaging materials, making it a responsible choice for environmentally conscious businesses. By adapting energy consumption dynamically, the unit helps lower operational costs while maintaining a small carbon footprint.

Optimized Performance for Heavy Traffic
The non-blocking wire-speed architecture ensures smooth data transmission with minimal packet loss or network congestion. Support for 802.3x flow control in full-duplex mode and backpressure flow control in half-duplex mode guarantees stable connections even during peak usage. Additionally, jumbo frame support up to 16KB enables efficient handling of large data transfers required by modern applications.

User-Friendly Design
Installation is straightforward with no configuration required, allowing users to connect and start working immediately. The compact form factor combined with a fanless design ensures quiet, maintenance-free operation suitable for noise-sensitive areas. Rackmount brackets are included in the package, providing flexible deployment options for growing networks that need scalable solutions.

Key Specifications

- Part Number: TP TL-SG1008
- Switching Capacity: 16Gbps
- Packets Forwarding Rate: 11.9Mpps
- Interface: 8x 10/100/1000Mbps RJ45 Ports
- MAC Address Table: 4K entries
- Jumbo Frame Support: Up to 16KB
- Transmission Method: Store-and-Forward

Environmental and Physical Details
The unit is designed to operate reliably in diverse conditions, with an operating temperature range of 0degrees C to 40degrees C. Storage temperatures can withstand extremes from -40degrees C to 70degrees C, while humidity tolerance ranges from 10% to 90% during operation and 5% to 90% for storage. The dimensions are compact at 11.6 x 7.1 x 1.7 inches, fitting easily into standard 13" or 19" racks.

Power and Performance Metrics

- Power Supply: 100-240VAC, 50/60Hz
- Max Power Consumption: 4.1W to 4.3W depending on load
- Max Heat Dissipation: 14.67 BTU/h

- Fan Quantity: Fanless Design

Certifications and Standards

This switch meets rigorous industry standards including FCC and RoHS certifications, ensuring safety and environmental compliance for global deployment. It supports UTP cabling up to 100 meters on Category 3, 4, or 5 cables for 10BASE-T connections, while Category 5, 5e or above is recommended for 100BASE-TX and 1000BASE-T speeds.

What's in the box

- 8-Port Gigabit Desktop Switch
- Power Cord
- Installation Guide
- Rackmount Kit
- Rubber Feet

The TP-Link TL-SG1008 stands as a reliable, high-performance networking solution for businesses and home users alike. Its combination of silent operation, energy efficiency, and flexible mounting makes it a top choice for expanding network capacity without the noise or heat issues associated with traditional active cooling systems.

Specifications:

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Specifications	
Product Code	TP TL-SG1008
HARDWARE FEATURES	
Standards and Protocols	IEEE 802.3i
	IEEE 802.3u
	IEEE 802.3ab
	IEEE 802.3x
	IEEE 802.1p
Interface	8 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
Max. Power Consumption	Maximum: 4.1W
Dimensions (W x D x H)	11.6 x 7.1 x 1.7 in.
	(294 x 180 x 44 mm)
Mounting	13" or 19" Rack Mountable
Max. Power Consumption	4.3W
Max. Heat Dissipation	14.67BTU/h
PERFORMANCE	

Switching Capacity	16Gbps
Packet Forwarding Rate	11.9Mpps
MAC Address Table	4K
Jumbo Frame	16KB
Transmission Method	Store-and-Forward
SOFTWARE FEATURES	
Advanced Features	MAC address auto-learning and auto-aging
	IEEE802.3x Flow control
	802.1p/DSCP QoS
OTHERS	
Certification	FCC, RoHS
Package Content	8-Port Gigabit Desktop Switch
	Power Cord
	Installation Guide
	Rackmount kit
	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 mounted in a standard server rack?
The TP-Link TL-SG1008 is designed for flexible deployment and comes with a rackmount kit, allowing it to be securely installed in both 13-inch or 19-inch racks.

Does the TL-SG1008 require any configuration software?
No, this switch features plug-and-play operation with auto MDI/MDIX on all ports, meaning you can connect devices immediately without needing to configure settings or use crossover cables.

Is this switch suitable for a quiet office environment?
Yes, the TL-SG1008 utilizes a fanless design that ensures silent operation and maintenance-free performance, making it ideal for noise-sensitive areas like offices or homes.

What is the maximum cable length supported by this Gigabit switch?
The device supports standard UTP cabling up to 100 meters (328 feet) for both 10BASE-T and 100/1000BASE-T connections, utilizing categories 3, 4, 5, 5e or above.

How does this switch manage power consumption?
Incorporating TP-Link Green Technology, the TL-SG1008 automatically adjusts energy usage based on cable length and link activity to reduce electricity costs and environmental impact.

Product Information Online

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

Product page:
https://www.comx.co.za/TP-TL-SG1008-TP-Link-TL-SG1008-8-Port-Gigabit-Desktop-Rackmount-Switch-p-342195.php

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