

5-Port Gigabit Easy Smart Switch

MODEL: TL-SG105E Datasheet



Highlights

- 5 10/100/1000Mbps RJ45 ports
- Provides network monitoring, traffic prioritization and VLAN features
- Innovative energy-efficient technology saves power
- Simple network set-up on top of plug-and-play connectivity
- Simple configuration by web-based user interface¹ and management utility

Overview

The TL-SG105E 5-Port Gigabit Easy Smart switch is an ideal upgrade from an unmanaged switch, designed for small and medium business networks that require simple network management. The configuration is largely simplified by the web-based user interface and management utility. Network administrators can effectively monitor traffic via Port Mirroring, Loop Prevention and Cable Diagnostics features. To optimize traffic on your business network, TL-SG105E offers Port-based/802.1p/DSCP QoS to keep latency-sensitive traffic moving smoothly and jitter-free. Additionally, port-based, tag-based and MTU VLAN can improve security and meet more network segmentation requirements. Moreover, with its innovative energy-efficient technology, the TL-SG105E can save power consumption, making it an eco-friendly solution for your business network.

Effective Management

TP-Link's Gigabit Easy Smart switch, TL-SG105E offers network monitoring for users to observe traffic behavior. You can easily configure it by the web-based user interface or management utility. With Port Mirroring, Loop Prevention and Cable Diagnostics features, TL-SG105E can identify and even locate connection problems on your business network. Moreover, administrators can designate the priority of the traffic based on Port Priority, 802.1p and DSCP Priority, to ensure that voice and video are always clear, smooth and lag-free. Additionally, to improve security and network performance, TL-SG105E supports MTU VLAN, port-based VLAN and 802.1Q-based VLAN functions. TL-SG105E is an upgrade from the plug-and-play Unmanaged Switch, delivering great value while empowering your network and similarly delivering great value to the end user.

Go Green with Your Ethernet

You now have the choice to go green when upgrading to a gigabit network! This new generation TL-SG105E 5-Port Gigabit Easy Smart 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 and cable length to limit the carbon footprint of your network.

Power down Idle Ports

When a computer or network equipment is off, the corresponding port of a traditional switch will continue to consume considerable amounts of power. The TL-SG105E can automatically detect the link status of each port and reduce the power consumption of ports that are idle.

Power Budget According to Cable Length


Ideally, shorter cables would use less power because of less power degradation over their length; this is not the case with most devices as they will use the same amount of power across the cable regardless of whether it is 10 or 50 meters in length. The TL-SG105E analyzes the length of the Ethernet cable connected and adjusts the power usage accordingly, rather than keeping the power consumption in a conventional solution.

Easy to Use

TL-SG105E is easy to use and manage. Auto MDI/MDI-X crossover on all ports eliminate the need for crossover cables or uplink ports. Auto-negotiation on each port senses the link speed of a network device (either 10, 100, or 1000 Mbps) and intelligently adjusts for compatibility and optimal performance. Its compact size makes it ideal for desktops with limited space. Dynamic LED lights provide real-time work status display and basic fault diagnosis.

Specifications

Hardware Features & Performance

Product Picture		
Model	TL-SG105E	
Standards	IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, IEEE 802.1p, IEEE 802.1q	
Forwarding Mode	Store and forward	
Physical Features	Interface	5 10/100/1000Mbps RJ45 ports Auto Negotiation Auto MDI/MDIX
	Power Supply	External Adapter (output: 9VDC/0.6A)
	Fan Quantity	Fanless
	Certification	CE, FCC, RoHS
	Max Power Consumption (220V/50Hz)	2.5W
	Dimensions	3.9 * 3.9 * 1.0 in. (100 * 98 * 25 mm)
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%~95%RH, non-condensing	
Performance	Switching Capacity	10Gbps
	Forwarding Rate	7.4Mpps
	MAC Address Table	2K
	Packet Buffer Memory	1.5Mb
	Jumbo Frame	15KB

Software Features

L2 Switching Features	<ul style="list-style-type: none"> • IGMP Snooping <ul style="list-style-type: none"> - IGMP Snooping V1/V2/V3 - Supports 128 Groups • Link Aggregation <ul style="list-style-type: none"> - Supports static link aggregation - 1 aggregation group, containing 4 ports per group • Port Mirroring <ul style="list-style-type: none"> - One to One - Many to One • Cable Test • Loop Prevention
VLAN	<ul style="list-style-type: none"> • Supports up to 32 VLANs (out of 4K VLAN IDs) • MTU/Port/802.1Q tag VLAN
Quality of Service (QoS)	<ul style="list-style-type: none"> • Support Port-based/802.1p/DSCP priority • Support 4 priority queues • Rate Limit • Storm Control

Ordering Information

Host Switch	
Product Model	Description
TL-SG105E	5-Port Gigabit Easy Smart Switch
Router	
Product Model	Description
TL-ER604W	SafeStream Wireless N Gigabit Broadband VPN Router

www.tp-link.com

Specifications are subject to change without notice. TP-Link is a registered trademark of TP-Link Technologies Co., Ltd. Other brands and product names are trademarks or registered trademarks of their respective holders. Copyright © 2016 TP-Link Technologies Co., Ltd. All rights reserved.