

# 16/24 Port Gigabit Easy Smart PoE+ Switch

MODEL: TL-SG1218MPE / TL-SG1428PE



## Highlights

- 16 PoE+ Gigabit RJ45 ports, 2 Gigabit RJ45 ports and 2 combo Gigabit SFP slots (For TL-SG1218MPE) / 24 PoE+ Gigabit RJ45 ports, 2 Gigabit RJ45 ports and 2 Gigabit SFP slots (For TL-SG1428PE)
- High PoE power budget with up to 30 W for each PoE port and 250 W\* for all PoE ports
- Working with IEEE 802.3af/at compliant PDs
- PoE Auto Recovery automatically reboots your dropped or unresponsive PoE-powered devices
- Advanced Features for higher performance like 802.1Q VLAN, 802.1p QoS and IGMP Snooping
- Intelligent power management module like PoE Schedule, PoE Priority, PoE Power Limit
- Easy to Use, the web-based UI and management utility simplify the configuration

## Overview

TL-SG1218MPE / TL-SG1428PE with 16/24 ports supporting the PoE+ standard provides a simple way to expand the wired network while transferring power over the same ethernet cable at the same time. With a total power budget of 250 W\*, up to 30 W per port, and the powerful PoE Module, TL-SG1218MPE / TL-SG1428PE can power more high-powered devices such as Access Points, IP Cameras, IP Phones. Moreover, TL-SG1218MPE / TL-SG1428PE can provide 802.1q VLAN, IGMP Snooping, LAG and other software functions to meet various network configuration needs.

# Power over Ethernet for Simplified Network Deployment

- Features 16 (For TL-SG1218MPE) / 24 (For TL-SG1428PE) 802.3af/at compliant PoE+ ports, with a total PoE power budget of 250 W\*
- Flexible deployment for PoE supported devices such as wireless access points (APs), IP phones, and IP cameras
- Designed to use a single Ethernet cable for both data and power transmission, lowering infrastructure costs

## Highlight Performance

- Advanced feature - QoS optimizes the performance of quality-sensitive application like Surveillance Video. And IGMP Snooping ensures the multicast stream be forwarded intelligently to the appropriate subscribers by the switch.
- After configuring the PoE management module, TL-SG1218MPE / TL-SG1428PE can control the Power Limit, Port Priority, and PoE Scheduling of each PoE port.
- PoE Auto Recovery automatically reboots your dropped or unresponsive PoE-powered devices.

## Easy to Use

- Plug & play, no configuration required
- Auto MDI/MDIX eliminates the need for crossover cables
- Auto-negotiation intelligently adjusts for compatibility and optimal performance

# Specifications

## Hardware Features & Performance

Product Picture			
Model		TL-SG1218MPE	TL-SG1428PE
General	Interfaces	18 10/100/1000Mbps RJ45 Ports 2 Gigabit Combo SFP Slots	26 10/100/1000Mbps RJ45 Ports 2 Gigabit SFP Slots
PoE	PoE Standard	802.3 af/at	802.3 af/at
	PoE Ports	16, up to 30 W Per Port	24, up to 30 W Per Port
	PoE Power Budget	250 W*	250 W*
Performance	Switching Capacity	36 Gbps	56 Gbps
	Packet Forwarding Rate	26.78 Mpps	41.66 Mpps
	Max Address Table	8 K	8 K
	Packet Buffer	4.1 Mbit	4.1 Mbit
	Jumbo Frame	10 KB	10 KB
Physical & Environment	Power Supply	100-240V AC, 50/60Hz	100-240V AC, 50/60Hz
	Maximum Power Consumption (220V/50Hz)	21.41 W (220V/50Hz, no PD connected) 296.3 W (220V/50Hz, with 250W PD connected)	27 W (220V/50Hz, no PD connected) 304.7 W (220V/50Hz, with 250W PD connected)
	Maximum Heat Dissipation	73.01 BTU/h (no PD connected) 1010.38 BTU/h (with 192 W PD connected)	92.07 BTU/h (no PD connected) 1039.03 BTU/h (with 192 W PD connected)
	Dimensions (W×D×H)	17.3 × 7.1 × 1.7 in. (440 × 180 × 44 mm)	17.3 × 8.7 × 1.7 in. (440 × 220 × 44 mm)
	FAN Quantity	2	2
	Operating Temperature	0°C~50°C (32°F~122°F)	0°C~50°C (32°F~122°F)
	Storage Temperature	-40°C~70°C (-40°F~158°F)	-40°C~70°C (-40°F~158°F)
	Operating Humidity	10%~90%RH, non-condensing	10%~90%RH, non-condensing
	Storage Humidity	5%~90%RH, non-condensing	5%~90%RH, non-condensing
Certification	CE, FCC	CE, FCC	

## Software Features

L2 Features	<ul style="list-style-type: none"> <li>• Link Aggregation                             <ul style="list-style-type: none"> <li>- Static link aggregation</li> <li>- Up to 8 aggregation groups and up to 4 ports per group</li> </ul> </li> <li>• Loopback Detection</li> <li>• Port Statistics</li> <li>• Cable Test</li> <li>• Flow Control</li> <li>• Mirroring                             <ul style="list-style-type: none"> <li>- Port Mirroring</li> <li>- Ingress/Egress/Both</li> </ul> </li> <li>• PoE Auto Recovery</li> </ul>
IGMP Snooping	<ul style="list-style-type: none"> <li>• IGMP v1/v2/v3 Snooping</li> <li>• 128 Max Multicast Entries</li> </ul>
VLAN	<ul style="list-style-type: none"> <li>• 802.1Q VLAN</li> <li>• Port Based VLAN</li> <li>• MTU VLAN</li> </ul>
QoS	<ul style="list-style-type: none"> <li>• Port Based, 802.1p Based, 802.1p QoS/ DSCP priority</li> <li>• Bandwidth Control                             <ul style="list-style-type: none"> <li>- Ingress Rate/Egress Rate/Both</li> </ul> </li> <li>• Storm Control                             <ul style="list-style-type: none"> <li>- Broadcast/Multicast/Unknown-Unicast Control</li> </ul> </li> </ul>

\* PoE budget calculations are based on laboratory testing. Actual PoE power budget is not guaranteed and will vary as a result of client limitations and environmental factors.

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