



28-Port Gigabit Smart Switch 24Port PoE+

Technical Specifications

Product Information

EAN	6935364072216
Brand	Tp-Link
SKU	10311366
Manu Part #	TL-SG1428PE

Data transmission

Packet buffer memory	4.1 MB
Forwarding rate	41.7 Mpps
Jumbo frames	10000
MAC address table	8000 entries
Store-and-forward	Yes

Jumbo frames support	Yes
Switching capacity	56 Gbit/s
Number of queues	4

Certificates	
Certification	CE, FCC, RoHS

Power over Ethernet (PoE)	
Power over Ethernet plus (PoE+) ports quantity	24
Total Power over Ethernet (PoE) budget	250 W
Power over Ethernet (PoE)	Yes
Power over Ethernet (PoE) power per port	30 W

Ports & interfaces	
Basic switching RJ-45 Ethernet ports type	Gigabit Ethernet (10/100/1000)
Basic switching RJ-45 Ethernet ports quantity	26
SFP module slots quantity	2
Gigabit Ethernet (copper) ports quantity	26

Security

Security algorithms

SNMP, SNMPv2, SNMPv3

IGMP snooping

Yes

Management features

Web-based management

Yes

Switch layer

L2

Quality of Service (QoS) support

Yes

Switch type

Managed

Multicast features

Multicast support

Yes

Design

Number of fans

2 fan(s)

Product colour

Black

Rack mounting

Yes

Form factor

1U

Weight & dimensions

Height	44 mm
Width	440 mm
Depth	220 mm

Packaging content

Cables included	AC
Rack mount kit	Yes
User guide	Yes

Logistics data

Harmonized System (HS) code	85176990
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Network

Networking standards	IEEE 802.1Q, IEEE 802.1p, IEEE 802.3, IEEE 802.3ab, IEEE 802.3af, IEEE 802.3at, IEEE 802.3u, IEEE 802.3x
Cable types supported	Cat3, Cat4, Cat5, Cat5e, Cat6
Virtual LAN features	Port-based VLAN, Tagged VLAN
Link aggregation	Yes
10G support	No

Number of VLANs	32
Auto MDI/MDI-X	Yes
Port mirroring	Yes
Flow control support	Yes
Broadcast storm control	Yes
Copper ethernet cabling technology	10BASE-T, 100BASE-TX, 1000BASE-T
Auto-negotiation	Yes
VLAN support	Yes
Rate limiting	Yes

Operational conditions	
Operating relative humidity (H-H)	10 - 90
Storage relative humidity (H-H)	5 - 90
Operating temperature (T-T)	0 - 50 C
Storage temperature (T-T)	-40 - 70 C

Power	
AC input voltage	100 - 240 V
AC input frequency	50 - 60 Hz
Power supply included	Yes

Power source	AC
Power consumption (max)	1039.03 W

Optical fiber	
Fiber ethernet cabling technology	1000BASE-X

Packaging data	
Package height	100 mm
Package depth	528 mm
Package width	336 mm
Package weight	3.94 kg

Product Description

Professional High Power 28-Port Gigabit Easy Smart Switch with 24-Port PoE+ Easy to Use, Multi-Purpose PoE Switch with Powerful Performance Multiple Application Scenarios The TL-SG1428PE is fully compatible with PoE devices, such as IP cameras, access points, and IP phones. It also works with non-PoE wired devices to provide gigabit connections, such as PCs, printers, and IPTV. Dedicated 24 PoE+ Ports (250 W Budget) for Numerous Applications Compliance with the 802.3af/at PoE+ standard supports up to 30 W on each PoE port. The total 250 W PoE power budget for the 24 gigabit PoE+ ports makes it has a wide range of applications, such as surveillance, offices, dormitories, and small businesses. It is fully compatible with IP cameras, access points, IP phones, computers, printers, etc. Easy to Use Value-Added Features Bring Unexpected Experiences QoS for a Lag-Free Experience Ensures smooth traffic for latency-sensitive applications, such as voice and video. IGMP Snooping for Multicast Optimization Ensures a better network experience, especially for applications like IPTV, by optimizing multimedia traffic delivery. VLAN for Security Helps to create a network with higher security and better overall performance by dividing the network into smaller groups. Making Management Easy TL-SG1428PE offers network monitoring for users to observe traffic behavior. Through its web-based user interface and management utility, the TL-SG1428PE offers a variety of useful features, including network monitoring, traffic prioritization, and enhanced QoS. Multiple Factors Guarantee Stable Operation System Self-Healing with PoE Auto Recovery The switch automatically detects and reboots the PD devices, such as cameras and APs, when they fall offline or go unresponsive, guaranteeing the stable operation of PoE-connected devices, without need for manual monitoring and restart. Intelligent Power Management to Prevent Power Overload Automatically cuts lower priority ports' power to ensure high-priority ports' power supply when the total PoE power consumption exceeds 250 W. This protects the device from power overload operation. Great Compatibility with PD Detection Automatically detects the required PoE power for your device and protects your non-PoE equipment from being damaged. Wide Operating Temperature with Good Heat Dissipation Durable metal casing and professional heat dissipation



design ensure the wide operating temperature (0-50) with reliability.