



5-Port Gigabit EdgeSmart PoE+ Switch

TPE-TG50ES (v1.0R)

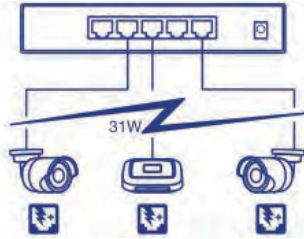
- 4 x Gigabit PoE+ ports
- 1x Gigabit port
- 31W PoE power budget
- Easy-to-use web-based management interface
- Supports static link aggregation, RSTP, VLAN, QoS, and IGMP Snooping
- Voice VLAN for VoIP applications
- Bandwidth control per port
- 10Gbps switching capacity
- IEEE 802.1p QoS with queue scheduling support
- Compact fanless design
- Wall mountable metal housing

TRENDnet's 5-Port Gigabit EdgeSmart PoE+ Switch, model TPE-TG50ES, is a cost-effective desktop managed switch solution for high-speed gigabit PoE+ applications. This 5-port smart PoE+ switch features the most commonly used managed switch features, reducing unnecessary switch complexity. The web-based management interface offers features for traffic control, static link aggregation, RSTP, VLAN, QoS, and monitoring. TRENDnet's TPE-TG50ES provides four gigabit PoE+ ports for connecting devices such as wireless access points, IP cameras, and VoIP handsets.



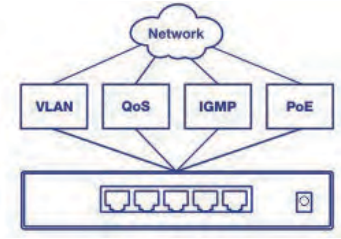
EdgeSmart Management

Provides an easy-to-use web-based management interface for reduced switch configuration complexity and offers a combination of more commonly used SMB management features for easy deployment.



PoE+ Power

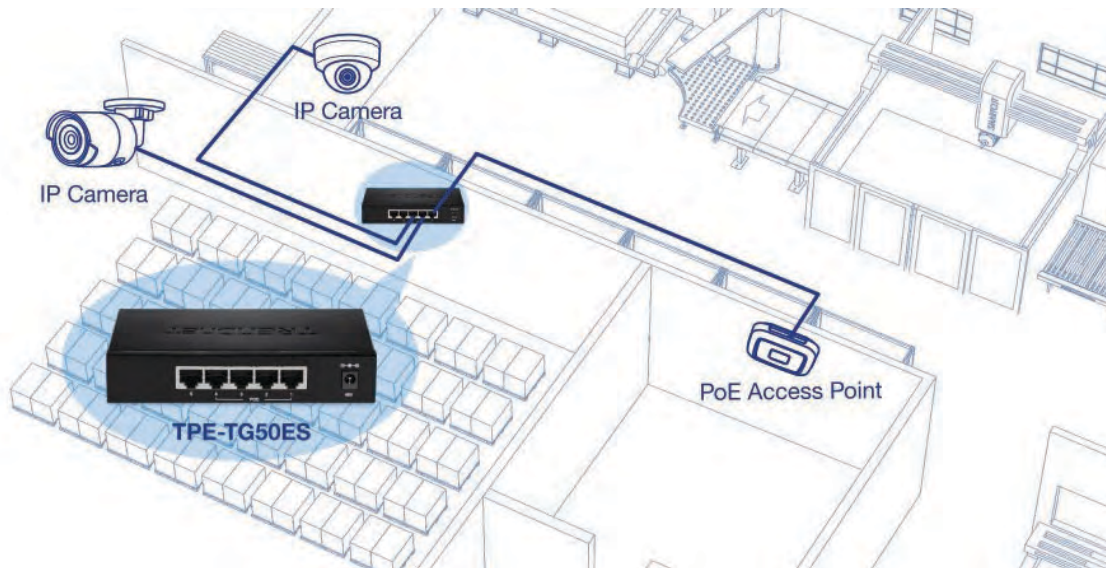
A 31W PoE power budget supplies up to four Power over Ethernet devices from the 5-port smart PoE+ switch.



Integration Flexibility

Managed features include loopback detection, RSTP, static link aggregation, VLAN, IGMP Snooping, and QoS for flexible network integration.

NETWORKING SOLUTION



- ① Reset button
- ② LED indicators

- ③ 1 x Gigabit port
- ④ 4 x Gigabit PoE+ ports

- ⑤ Power port

FEATURES



Ports

Four gigabit PoE+ ports and one gigabit port provide a 10Gbps switching capacity on this 5-port smart PoE+ switch



Compact Design

With a compact and lightweight metal housing design, this switch is well-suited for desktop and wall mount installations



Network Management

The web-based management interface offers features for loopback detection, RSTP, static link aggregation, VLAN, IGMP Snooping, and QoS



Monitoring

SNMP, SNMP Trap, and Port Mirroring support administrator monitoring solutions



Troubleshooting

Traffic statistics and a convenient cable diagnostic test



Fanless

Its fanless design is ideal for quiet environments that require silent operation



LED Indicators

The desktop managed switch includes LED indicators that convey port status

SPECIFICATIONS

Standards

- IEEE 802.1d
- IEEE 802.1w
- IEEE 802.1p
- IEEE 802.1Q
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3x
- IEEE 802.3ab
- IEEE 802.3af
- IEEE 802.3at
- IEEE 802.3az

Device Interface

- 4 x Gigabit PoE+ ports
- 1 x Gigabit port
- LED indicators
- Reset button

Data Transfer Rate

- Ethernet: 10Mbps (half duplex), 20Mbps (full duplex)
- Fast Ethernet: 100Mbps (half duplex), 200Mbps (full duplex)
- Gigabit: 2000Mbps (full duplex)

Performance

- Packet Buffer: 125KB
- Switch Fabric: 10Gbps
- MAC Address Table: 2K entries
- Forwarding rate: 7.44Mpps (64-byte packet size)
- Jumbo Frame: 9KB

Management

- HTTP Web based GUI
- SNMP v1, v2c
- Cable diagnostic test
- Backup/Restore Configuration
- Upload Firmware

Spanning Tree

- IEEE 802.1d STP (spanning tree protocol)
- IEEE 802.1w RSTP (rapid spanning tree protocol)

Link Aggregation

- Static link aggregation (only 1 group)
- Quality of Service (QoS)
- Port-based QoS
- 802.1p Class of Service (CoS)
- Bandwidth Control/Rate Limiting per port (Min. Limit: 8Kbps)
- Queue Scheduling: Strict Priority (SP), Weighted Fair Queueing (WFQ)

VLAN

- Port-based VLAN
- 802.1Q Tagged VLAN
- Up to 32 VLAN groups, ID Range 1-4094
- Private VLAN
- Asymmetric VLAN
- Voice VLAN (5 user defined OUIs)

Multicast

- IGMP Snooping v1/2/3
- Block unknown multicast source
- Up to 32 multicast groups

Port Mirror

- One to one
- Many to one

Storm Control

- Broadcast (Min. Limit: 8Kbps)
- Multicast (Min. Limit: 8Kbps)
- Loopback Detection

Special Features

- PoE+ support
- Enable/disable 802.3az Power Saving
- Wall mountable

Power

- Input: 110-240V AC, 50/60Hz, 0.75A
- Output: 48V DC, 0.8A external power adapter
- Max. consumption: 34W

PoE

- PoE budget: 31W
- PoE Mode A: Pins 1,2 for power and pins 3,6 for power

MTBF

- 2,942,586 hours

Operating Temperature

- 0° – 40° C (32° – 104° F)

Operating Humidity

- Max. 90% non-condensing

Dimensions

- 150 x 98 x 28mm (5.9 x 3.86 x 1.1 in.)

Weight

- 380g (13.4 oz.)

Certifications

- CE
- FCC

Warranty

- 3 years

Package Contents

- TPE-TG50ES
- Quick Installation Guide
- Power brick (48V DC, 0.8A)
- Power cord