

8-Port Gigabit EdgeSmart PoE+ Switch

TPE-TG82ES (v2.xR)

- 8 x Gigabit PoE+ ports
- 64W 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
- 16Gbps switching capacity
- IEEE 802.1p CoS with queue scheduling support
- Compact fanless design
- Wall mountable metal housing
- Lifetime Warranty
- NDAA / TAA compliant (U.S. and Canada only)

TRENDnet's 8-Port Gigabit EdgeSmart PoE+ Switch, model TPE-TG82ES, is a cost-effective desktop PoE managed switch solution for high-speed gigabit PoE+ applications. This EdgeSmart 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-TG82ES desktop PoE managed switch provides eight gigabit PoE+ ports for connecting devices such as wireless access points, IP cameras, and VoIP handsets.



EdgeSmart Management

Provides an easy-to-use management interface and offers the more commonly used SMB management features for reduced switch configuration complexity and easy deployment.



PoE+ Power

A 64W PoE power budget supplies up to eight Power over Ethernet devices, such as wireless access points and IP cameras.



Integration Flexibility

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

FEATURES



Ports

Eight gigabit PoE+ ports provide a 16Gbps switching capacity



Compact Design

With a compact and lightweight metal housing design, this desktop PoE managed switch is also well-suited for 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

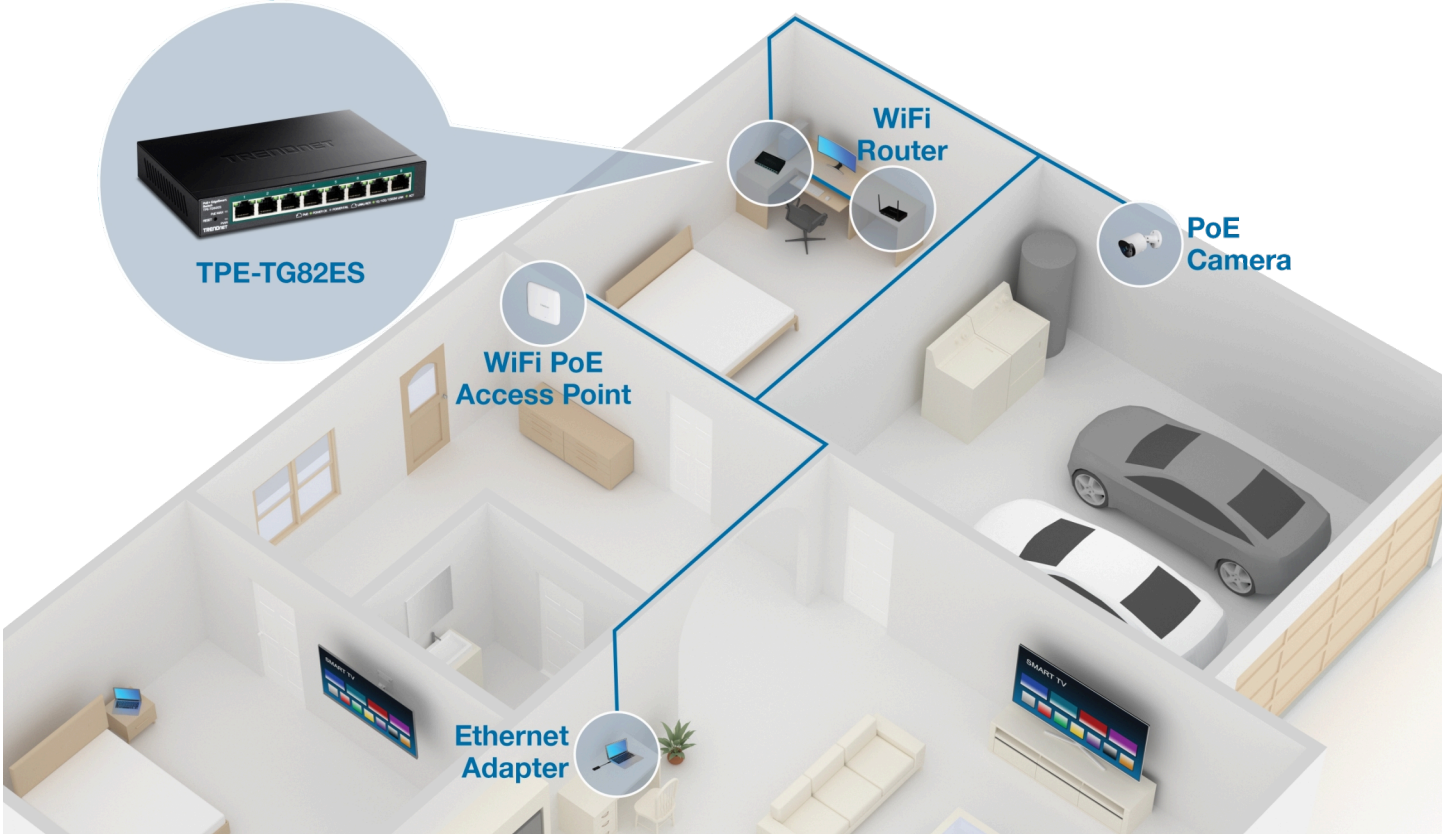
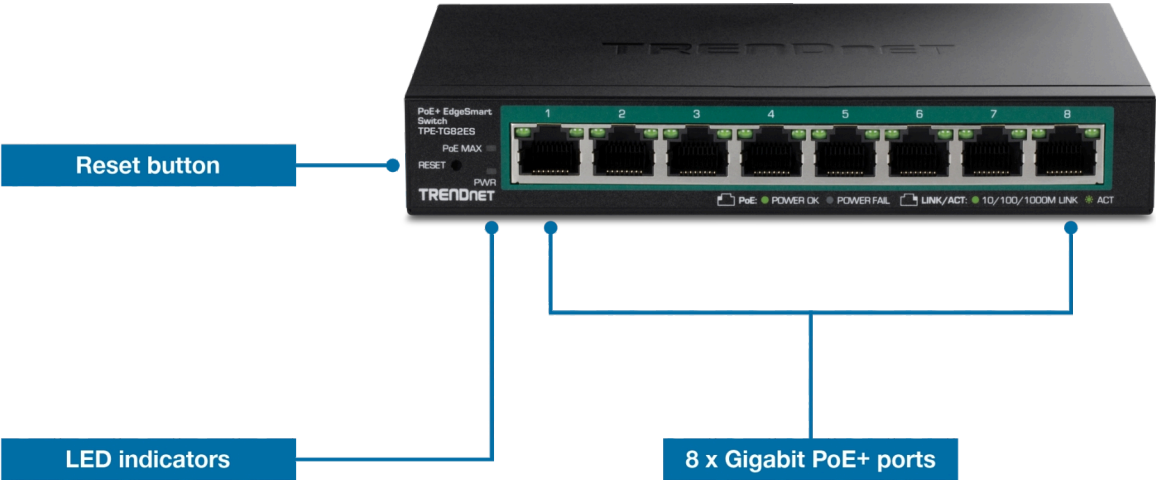
This desktop PoE managed switch with a fanless design is ideal for environments that require silent operation



LED Indicators

The desktop PoE managed switch includes LED indicators that convey port status

NETWORKING SOLUTION



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

- 8 x Gigabit PoE+ ports
- LED indicators
- Reset button

Data Transfer Rate

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

Performance

- Switch fabric: 16Gbps
- RAM buffer: 192KB
- MAC Address Table: 4K entries
- Jumbo Frames: 9KB
- Forwarding rate: 11.9Mpps (64-byte packet size)

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 (up to 2 groups)

Quality of Service (QoS)

- Port-based QoS
- 802.1p Class of Service (CoS)
- DSCP (Differentiated Services Code Point)
- 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: 100 – 240V AC, 50/60Hz, 2.5A
- Output: 55V DC, 1.3A external power adapter
- Max. consumption: 4.32W (without max. PoE load) / 70.74W (with max. PoE load)

PoE

- PoE budget: 64W
- 802.3at: Up to 30W per port
- PoE Mode A: Pins 1,2 for power and pins 3,6 for power
- PD auto classification
- Over current/short circuit protection

Fan / Acoustics

- Fanless design

MTBF

- 1,198,945 hours

Operating Temperature

- 0° – 40° C (32° – 104° F)

Operating Humidity

- Max. 90% non-condensing

Dimensions

- 160 x 110 x 26mm (6.29 x 4.33 x 1.02 in.)

Weight

- 434g (15.3 oz.)

Certifications

- CE
- FCC

Warranty

- Lifetime Warranty

Package Contents

- TPE-TG82ES
- Quick Installation Guide
- Power Brick (55V, 1.3A)
- Power Cord (1.5m / 5 ft.)

All references to speed are for comparison purposes only. Product specifications, size, and shape are subject to change without notice, and actual product appearance may differ from that depicted herein.

TRENDnet offers a lifetime warranty for all of its metal-enclosed network switches that have been purchased in the United States/Canada on or after 1/1/2015. Cooling fan and internal power supply carry a one-year warranty.