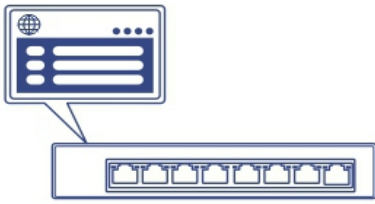# TRENDNET®

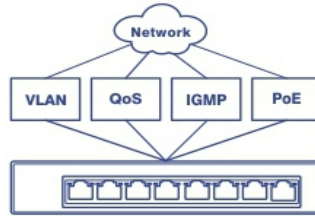# 8-Port Gigabit EdgeSmart PoE+ Switch

TPE-TG82ES (v1.0R)

- 8 x Gigabit PoE+ ports
- 64W PoE power budget
- Easy-to-use web-based management interface
- Supports LACP, 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

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, LACP, 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.
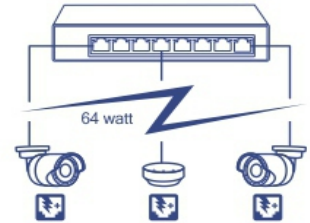
EdgeSmart Management
Provides an easy-to-use web-based management interface for reduced switch configuration complexity and offers a combination of more commonly used SMB management features for easy deployment.
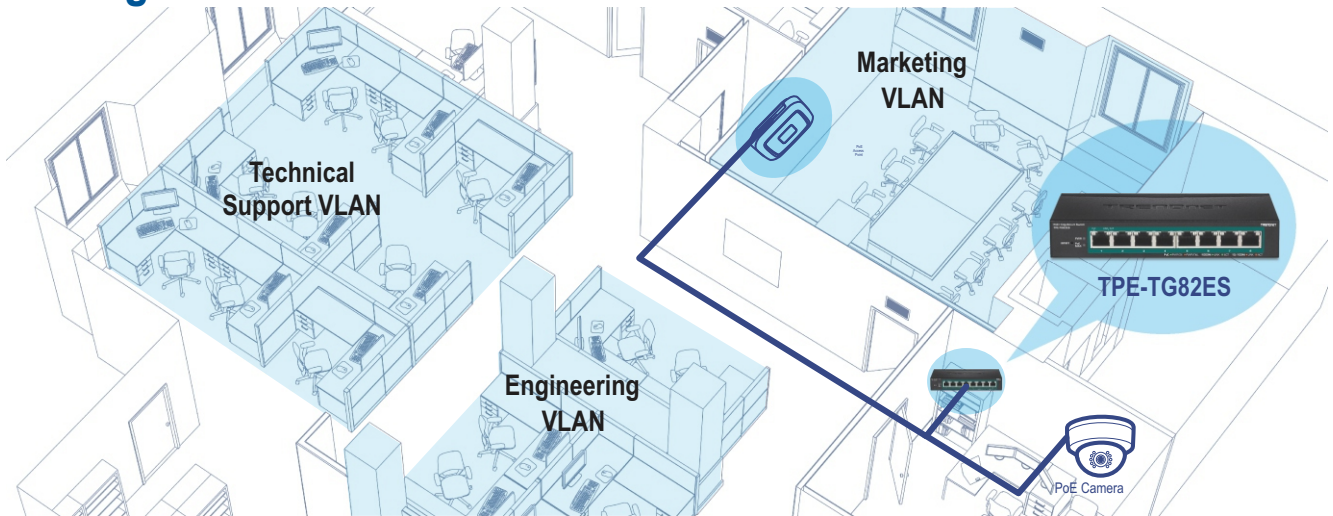
Integration Flexibility
Managed features include loopback detection, RSTP, LACP, VLAN, IGMP Snooping, and QoS for flexible network integration.

PoE+ Power
A 64W PoE power budget supplies up to eight Power over Ethernet devices.

Networking Solution

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, LACP, 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

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

Fanless
Desktop PoE managed switch with fanless design is ideal for quiet environments that require silent operation

TRENDnet®

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 802.3ad • 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	• 802.3ad Dynamic LACP (up to 2 groups)
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: 100 – 240V AC, 50/60Hz, 1.2A • Output: 54V DC, 1.67A external power adapter • Max. consumption: 68.6W
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	• 730,455 hours
Operating Temperature	• 0° – 40° C (32° – 104° F)
Operating Humidity	• Max. 90% non-condensing
Dimensions	• 171 x 97.8 x 28.6mm (6.73 x 3.85 x 1.12 in.)
Weight	• 423g (14.92 oz.)
Certifications	• CE • FCC
Warranty	• Lifetime Warranty

PACKAGE CONTENTS

• TPE-TG82ES
• Quick Installation Guide
• Power adapter (54V DC, 1.67A)

TRENDnet offers a limited 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.