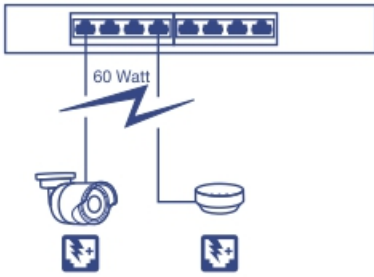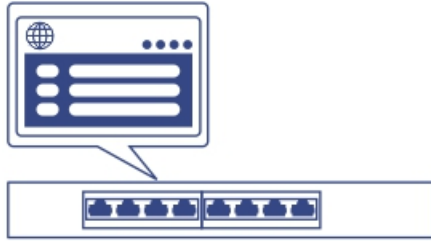# 8-Port Gigabit EdgeSmart PoE+ Switch

TPE-TG44ES (v1.0R)

- 4 x Gigabit PoE+ ports
- 4 x Gigabit ports
- 60W PoE power budget
- Easy to use web-based management interface
- Supports LACP, VLAN, QoS, and IGMP Snooping
- Bandwidth control per port
- 16Gbps switching capacity
- IEEE 802.1p QoS with queue scheduling support
- Compact fanless design
- Wall mountable metal housing

TRENDnet's 8-Port Gigabit EdgeSmart PoE+ Switch, model TPE-TG44ES, is a cost-effective 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, troubleshooting, access controls, and monitoring. TRENDnet's TPE-TG44ES provides four gigabit PoE+ and four gigabit non-PoE ports. The PoE+ standard supplies up to 30W of power per port for devices such as high power wireless access points, PTZ (Pan Tilt Zoom) Internet cameras, and VoIP telephony systems.
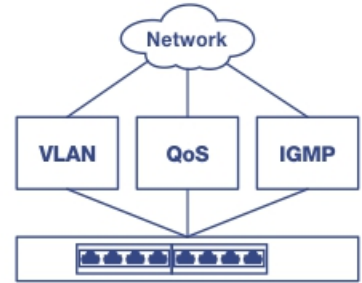
PoE Power

A 60W PoE power budget supports up to four Power over Ethernet devices.
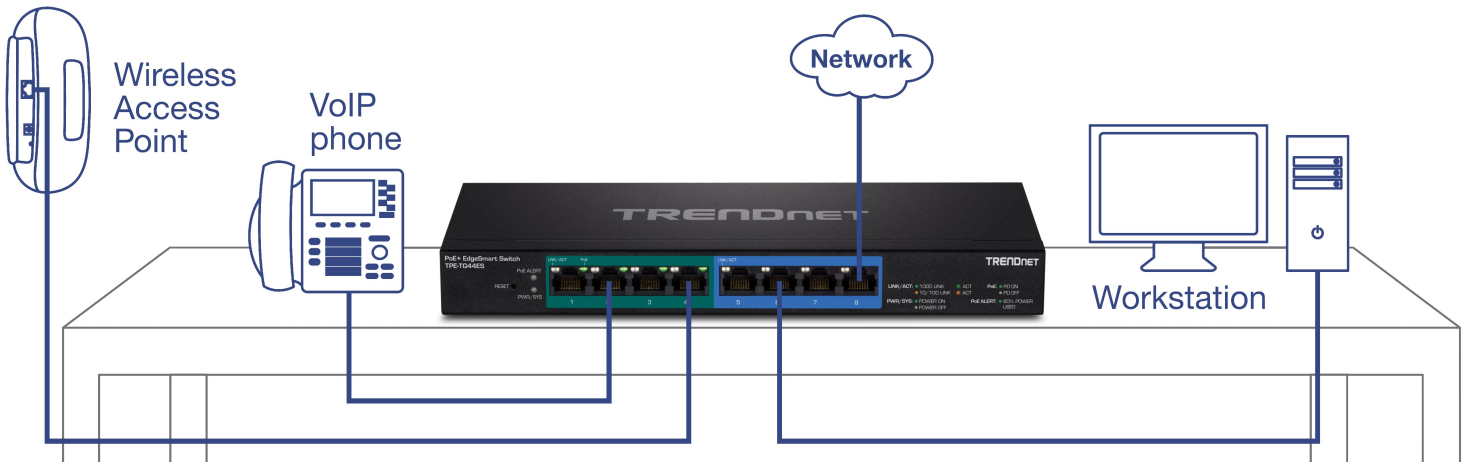

EdgeSmart Management

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

Integration Flexibility

Managed features include VLAN, IGMP Snooping, and QoS for flexible network integration.

Networking Solution

Ports
Four gigabit PoE+ ports and four gigabit ports provides a 16Gbps switching capacity

PoE Power
Supplies up to 30W of PoE+ power per PoE port with a 60W power budget

Compact Design
With a compact and lightweight housing design this switch is well-suited for desktop installations. Its fanless design is perfect for quiet environments that require silent operation

Network Management
A broad range of network configurations are supported by: 802.3ad link aggregation, 802.1Q VLAN, bandwidth controls, IGMP, loopback detection, port mirroring and 802.1p (QoS)

Troubleshooting
Traffic statistics and a convenient cable diagnostic test aid in network troubleshooting

Housing
Compact wall mountable metal housing

LED Indicators
LED indicators convey port status

TRENDnet®

Specifications

Standards
- IEEE 802.1p
- IEEE 802.1Q
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3x
- IEEE 802.3ab
- IEEE 802.3ad
- IEEE 802.3af (15.4 Watts/port)
- IEEE 802.3at (30 Watts/port)
- IEEE 802.3az

Device Interface
- 4 x Gigabit PoE+ ports (1-4)
- 4 x Gigabit ports (5-8)
- LED indicators
- Reset button

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

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

Management
- HTTP Web based GUI
- Backup/Restore configuration
- Upgrade firmware

Link Aggregation
- 802.3ad Dynamic LACP

Quality of Service (QoS)
- Port-based QoS
- 802.1p Class of Service (CoS)
- Bandwidth Control/Rate Limiting per port (Min. Limit: 512Kbps)
- Queue Scheduling: Strict Priority, Weighted Round Robin (WRR)

VLAN
- Port-based VLAN
- 802.1Q Tagged VLAN
- Up to 32 VLAN groups, ID Range 1-4094

Multicast
- IGMP Snooping v1/2/3
- Block unknown multicast source
- Up to 128 multicast entries

Port Mirror
- One to one
- Many to one
- Access Control
- Trusted Host/IP Access List

Storm control
- Broadcast (Min. Limit: 512Kbps)
- Multicast (Min. Limit: 512Kbps)
- Destination Lookup Failure (DLF) (Min. Limit: 512Kbps)
- Loopback Detection

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

Power
- Input: 100 - 240 V AC , 50/60 Hz, 2.5 A
- Output: 55 DC, 1.3 external power adapter
- Consumption: 65.28 W (max.)

PoE
- PoE budget: 60W
- 802.3at: Up to 30 W per port (ports 1-4)
- 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
- 1,089,244 hours

Operating Temperature
- 0 – 50°C (32 - 122°F)

Operating Humidity
- Max. 95% non-condensing

Dimensions
- 240 x 105 x 27 mm (9.45 x 4.1 x 1.06 in.)
- Wall mountable

Weight
- 576 g (20.3 oz.)

Certifications
- CE
- FCC

Warranty
- Limited Lifetime Warranty*

Package Contents
- TPE-TG44ES
- Quick Installation Guide
- CD-ROM (User's Guide)
- Power adapter (55V DC, 1.3 A)

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.