TRENDnet®

18-Port Gigabit EdgeSmart PoE+ Switch

TPE-TG182ES (v1.xR)

- 16 x Gigabit PoE+ ports
- 2 x Gigabit SFP ports (100Mbps / 1000Mbps)
- 240W 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
- 36Gbps switching capacity
- IEEE 802.1p CoS with queue scheduling support
- Smart fan reduce noise during operation
- 1U 19" rack mountable metal housing
- Lifetime Warranty

TRENDnet's 18-Port Gigabit EdgeSmart PoE+ Switch, model TPE-TG182ES, is a cost-effective rackmount 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-TG182ES rackmount PoE+ managed switch provides 16 gigabit PoE+ ports for connecting devices, such as wireless access points, IP cameras, and VoIP handsets; and two gigabit SFP ports for long-distance connectivity.

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.
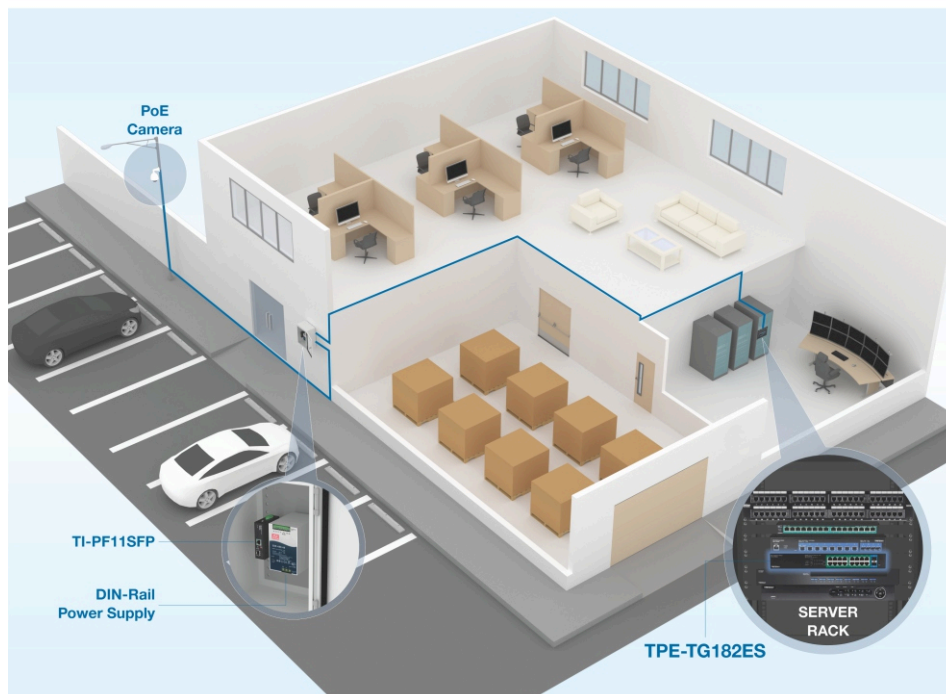
PoE+ Power

Features a 240W PoE power budget for up to 16 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.

NETWORKING SOLUTION

LED indicators

16 x Gigabit PoE+ ports

2 x Gigabit SFP ports (100Mbps / 1000Mbps)

Reset button

PoE Camera

TI-PF11SFP

DIN-Rail Power Supply

SERVER RACK

TPE-TG182ES

TRENDNET®

FEATURES

Hardware Design
The switch includes 16 x gigabit PoE+ ports, 2 x gigabit SFP ports, and a built-in power supply

Power over Ethernet
Provides a total PoE power budget of 240W, with gigabit PoE+ ports for 802.3at PoE+ and 802.3af PoE powered devices

SFP Ports
Includes two dedicated gigabit SFP ports for high-speed, long-distance network connections

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

Smart Fan
Saves energy and reduces noise during operation by auto adjusting the fan speed based on cooling needs

Rackmount Design
Sturdy 1U rack mountable metal housing with mounting brackets included

LED Indicators
The PoE+ 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 802.3z
- IEEE 802.3ab
- IEEE 802.3af
- IEEE 802.3at
- IEEE 802.3az

Device Interface
- 16 x Gigabit PoE+ ports
- 2 x Gigabit SFP ports (100Mbps / 1000Mbps)
- 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: 36Gbps
- RAM buffer: 512KB
- MAC Address Table: 8K entries
- Jumbo Frames: 9KB
- Forwarding rate: 26.78Mpps (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: 16Kbps)
- 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: 16Kbps)
- Multicast (Min. Limit: 16Kbps)
- Loopback Detection

Special Features
- PoE+ support
- Enable/disable 802.3az Power Saving
- SFP ports

Power
- Input: 100 – 240V AC, 50/60Hz, 2.6A
- Max. consumption: 9.77W (without PD load) / 248.18W (with full PD load)

PoE
- PoE budget: 240W
- 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
- Quantity: 1
- Smart Fan
- Noise Level: 47 dBa (max.)

MTBF
- 609,351 hours @ 25° C

Operating Temperature
- 0° – 40° C (32° – 104° F)

Operating Humidity
- Max. 90% non-condensing

Dimensions
- 328 x 228 x 44mm (12.9 x 8.98 x 1.73 in.)

Weight
- 2.58kg (5.69 lbs.)

Certifications
- CE
- FCC
- ETL

Warranty
- Lifetime Warranty

Package Contents
- TPE-TG182ES
- Quick Installation Guide
- Power cord (1.5m / 5 ft.)
- Rackmount kit

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.