

48-Port Gigabit Web Smart PoE+ Switch

TPE-4840WS (v1.0R)

- 12 x Gigabit PoE+ ports
- 12 x Gigabit PoE ports
- 24 x Gigabit ports and 4 shared SFP slots
- 370 Watt PoE budget
- 96 Gbps switching capacity
- Private/Voice VLAN, QoS, and bandwidth controls
- Smart fans reduce energy consumption
- Rack mount brackets included

TRENDnet's 48-Port Gigabit Web Smart PoE+ Switch, model TPE-4840WS, offers 12 x Gigabit PoE+ ports (ports 1-12 802.3at), 12 x Gigabit PoE ports (ports 13-24 802.3af), 24 x Gigabit ports (ports 25-48), 4 x shared SFP slots (shared with ports 45-48), and a PoE Power budget of 370 Watts. This IPv6 ready switch offers advanced traffic management, troubleshooting, access control, energy saving GREENnet, and monitoring features at a reduced cost.



Hardware Design

Provides 12 x Gigabit PoE+ ports (ports 1-12 802.3at), 12 x Gigabit PoE ports (ports 13-24 802.3af), 24 x Gigabit ports (ports 25-48), 4 x shared SFP slots (shared with ports 45-48), a PoE Power budget of 370 Watts, and includes rackmount brackets.



Smart Fan

Smart fan saves energy by varying fan speed and use based on cooling needs.



IPv6 Ready

This switch supports IPv6 configuration and IPv6 neighbor discovery.



Traffic Management

A broad range of network configurations are supported by: 802.3ad link aggregation, Asymmetric VLAN, 802.1Q VLAN, Voice VLAN, Private VLAN, Bandwidth Controls, GVRP, IGMP v1-v3, 802.1p Class of Service (CoS), Spanning Tree (STP, RSTP, and MSTP), and QoS queue scheduling.



Troubleshooting

Real time traffic comparison charts, error group charts, and a convenient cable diagnostic test aid in rapid troubleshooting.



Access Controls

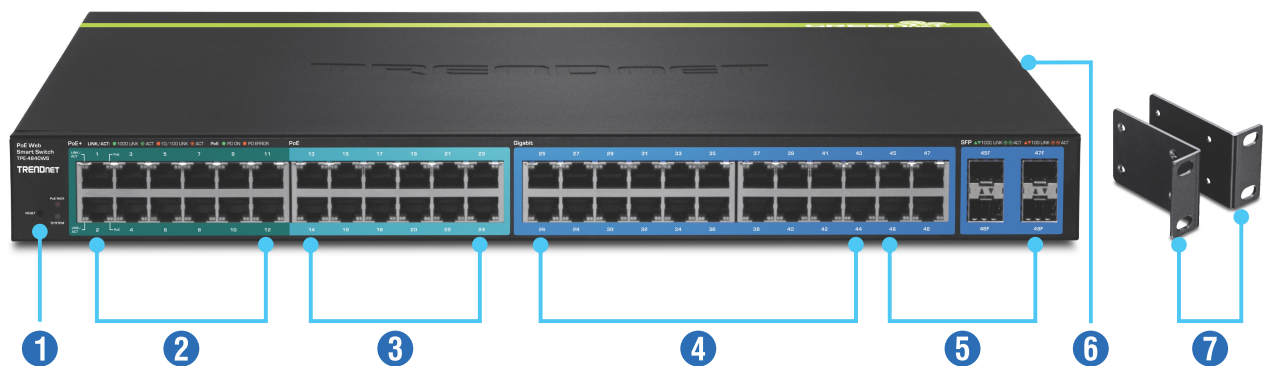
Features such as ACL, SSL, MAC/port filtering, Denial of Service controls, 802.1X, TACACS+, and RADIUS are compatible with layered network access controls.



Monitoring

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

Networking Solution



1 Reset button

2 Gigabit PoE+ ports

3 Gigabit PoE ports

4 Gigabit ports

5 Shared SFP/Gigabit ports

6 Smart fan

7 Included mounting brackets

Specifications

Standards

- IEEE 802.1D
- IEEE 802.1Q
- IEEE 802.1S
- IEEE 802.1X
- IEEE 802.1p
- IEEE 802.1w
- IEEE 802.1ab
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3x
- IEEE 802.3z
- IEEE 802.3ab
- IEEE 802.3ad
- IEEE 802.3af
- IEEE 802.3at
- IEEE 802.3az

Device Interface

- 12 x Gigabit PoE+ ports (ports 1-12)
- 12 x Gigabit PoE ports (ports 13-24)
- 24 x Gigabit ports (ports 25-48)
- 4 x shared SFP slots (shared with ports 45 - 48)
- LED indicators

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: 96 Gbps
- RAM buffer: 1 MB
- MAC Address Table: 16K entries
- Jumbo Frames: 10 KB
- HOL Blocking Prevention
- Forwarding rates: 71.42 Mpps (64-byte packet size)

Management

- HTTP/HTTPS (SSL v2/3 TLS) Web based GUI
- SNMP v1, v2c, v3
- RMON v1
- Static Unicast MAC Address
- Enable/disable 802.3az power saving
- LLDP
- Virtual cable test
- IPv6: IPv6 Neighbor Discovery, IPv6 Static IP, DHCPv6, Auto configuration

MIB

- MIB II RFC 1213
- Bridge MIB RFC 1493
- Bridge MIB Extension RFC 2674
- SNMPv2 MIB RFC 1907

- Ethernet Interface MIB RFC 1643
- Ethernet-like MIB RFC 2863
- Interface Group MIB RFC 2233
- MIB Traps Convention RFC 1215
- RMON MIB RFC 1757, RFC 2819
- 802.1p MIB RFC 2674
- RADIUS Client Authentication MIB RFC 2618
- LLDP-MIB IEEE 802.1ab
- Ping MIB RFC 2925, RFC 4560

Spanning Tree

- IEEE 802.1D STP (Spanning Tree protocol)
- IEEE 802.1w RSTP (Rapid Spanning Tree protocol)
- IEEE 802.1s MSTP (Multiple Spanning Tree protocol)

Link Aggregation

- Static Link Aggregation
- 802.3ad Dynamic LACP

Quality of Service (QoS)

- 802.1p Class of Service (CoS)
- DSCP (Differentiated Services Code Point)
- Bandwidth control per port
- Queue scheduling: strict priority, Weighted Round Robin (WRR)

VLAN

- Multiple management VLAN assignment
- Asymmetric VLAN
- 802.1Q tagged VLAN
- Dynamic GVRP
- Up to 256 VLAN groups, ID range 1-4094
- Private VLAN (protected ports)
- Voice VLAN (10 user defined OUs)

Multicast

- IGMP Snooping v1, v2, v3 (per VLAN)
- Static Multicast Address
- Up to 256 multicast entries

Port Mirror

- RX, TX, or both
- One to one
- Many to one

Access Control

- 802.1X Port-Based Network Access Control, RADIUS, TACACS+
- Local Dial In User Authentication
- DHCP Snooping (per VLAN)
- Loopback Detection
- Duplicated Address Detection
- Trusted Host
- Denial of Service (DoS)

ACL IPv4 L2-L4 & IPv6

- MAC Address
- VLAN ID
- Ether Type (IPv4 only)
- IP Protocol 0-255
- TCP/UDP Port 1-65535
- 802.1p
- DSCP (IPv4 only)
- IPv6 Address (IPv6 only)

Compatibility

- Optional Software Utility: Windows® 8.1, 8, 7, Vista, XP, Windows Server® 2003,2008

Power over Ethernet

- Total PoE power budget: 370 Watts
- PoE+ ports 1 – 12: up to 30 Watts per port
- PoE ports 13 – 24: up to 15.4 Watts per port
- PoE over current protection
- PoE short circuit protection

Power

- Input: 100 - 240 V AC, 50/60 Hz, internal power supply
- Consumption: 55.6 Watts (max. with no connected PoE devices)
- Consumption: 425.6 Watts (max. with total 370W PoE budget)

MTBF

- 318,350 hours

Operating Temperature

- -5 – 45 °C (23 - 113 °F)

Operating Humidity

- Max. 90% non-condensing

Dimensions

- 440 x 430 x 44 mm (17.3 x 16.9 x 1.7 in.)
- Rack mountable 1U height

Weight

- 6.5 kg (14.3 lbs.)

Certifications

- CE
- FCC
- UL 60950

Warranty

- 3 year limited

Package Contents

- TPE-4840WS
- Multi-Language Quick Installation Guide
- CD-ROM (Utility & User's Guide)
- Power cord (1.8 m/6 ft.)
- Rack mount hardware

