



52-Port Gigabit Web Smart 740W PoE+ Switch with 10G SFP+ Slots

TPE-3524SF (v1.0R)

- 48 x Gigabit PoE+ ports
- 4 x 10G SFP+ ports
- 740W PoE power budget
- · Easy-to-use web-based management interface
- Supports IPv6, LACP, VLAN, QoS, and IGMP/MLD Snooping
- IPv4/IPv6 Static Routing support
- Bandwidth control per port
- Private, Multicast, and Voice VLAN support
- Smart fan
- 176Gbps switching capacity
- IEEE 802.1p QoS with queue scheduling support
- Lifetime Warranty
- NDAA / TAA compliant (U.S. and Canada only)

TRENDnet's 52-Port Gigabit Web Smart PoE+ Switch with 10G SFP+ ports, model TPE-3524SF, offers advanced L2+ features with enhanced traffic management controls to meet the evolving demands of SMB networks. This managed PoE+ switch with SFP+ ports comes with an intuitive web-based interface. Advanced managed switch features include LACP to group ports together to increase bandwidth between switches, VLANs for segmenting and isolating virtual LAN groups, QoS for traffic prioritization, port bandwidth controls, and SNMP monitoring, making this a powerful solution for SMB networks. Improve voice performance by isolating and prioritizing VoIP traffic from normal data traffic with the easy-to-use voice VLAN feature.

Free up router resources by offloading routing processes to the managed switch by using the L2+ Managed IPv4/IPv6 static routing feature to efficiently route traffic at the switch level. The dynamic ARP inspection feature helps protect connected devices from manin-the-middle attacks by discarding malicious and invalid ARP packets. Take advantage of the available multicast and IGMP/MLD snooping features to optimize IP surveillance system performance, and minimize network traffic. This TRENDnet Web Smart Managed PoE+ Switch also feature 10G SFP+ portsports to support long-distance fiber networking applications.

Installers and integrators can save on equipment costs and reduce installation time with TRENDnet's Web Smart Managed PoE+ Switches by delivering up to 30W per port of PoE power and data over existing Ethernet cables. With PoE technology, users only need one set of cables to deliver both data and power. With this PoE+ managed switch, network PoE devices such as high-power wireless access points, PTZ and other advanced IP cameras, VoIP phone systems, IPTV decoders, access controls, and more.





10G SFP+ Ports

Offers four dedicated 10G SFP+ portsports for high-speed network connections, providing a cost-effective solution in adding 10G link capability to any SMB network.



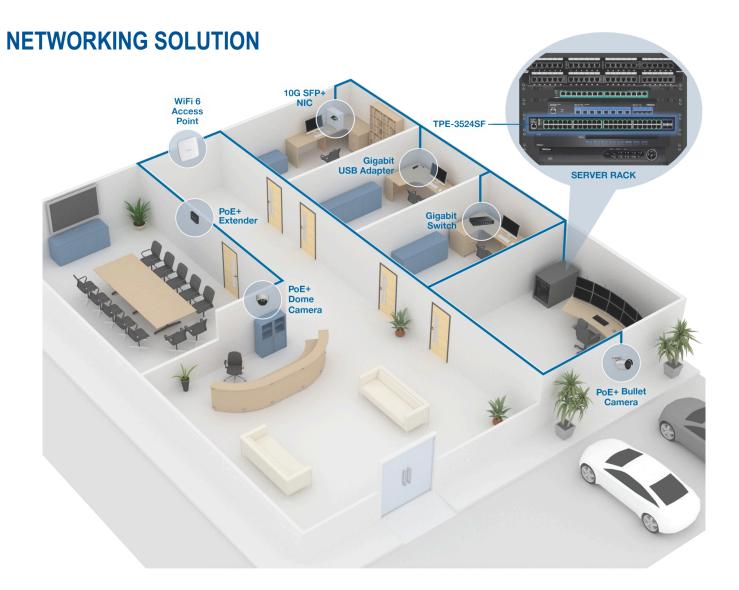
PoE Power

A 740W total PoE power budget on the managed PoE+ switch supplies Power over Ethernet devices with up to 30W per port.



Integration Flexibility

Managed switch features include access control lists, VLAN, IGMP/MLD snooping, QoS, RMON, SNMP trap, and syslog for monitoring and flexible network integration.



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FEATURES

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Hardware Design

Provides gigabit ports for device connections, 10G SFP+ portsports for fiber applications, and a 1U 19" rackmount design with brackets included



IPv6 Ready

This managed PoE+ switch with SFP+ ports supports IPv6 configuration and IPv6 neighbor discovery

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Dynamic ARP Inspection

Dynamic ARP inspection feature helps protect connected devices from man-in-the-middle attacks by discarding malicious and invalid ARP packets



Monitoring

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



Jumbo Frame

Sends larger packets, or Jumbo Frames (up to 9KB) for increased performance



PoE Power

A 740W total PoE power budget on the managed PoE+ switch supplies Power over Ethernet devices with up to 30W per port



Traffic Management

Managed switch features include: Link aggregation, 802.1Q VLAN, Voice VLAN, Multicast VLAN, RSTP, MSTP, Loopback Detection, QoS, and port bandwidth management



Troubleshooting

A convenient cable diagnostic test and traffic statistics aid in network troubleshooting



Smart Fan

The smart fan on this managed PoE+ switch with SFP+ ports saves energy by auto-adjusting the fan speed and use based on cooling needs



LED Indicators

LED indicators on this managed PoE+ switch with SFP+ ports convey port status



10G SFP+ Ports

Offers four dedicated 10G SFP+ ports for high-speed network connections, providing a costeffective solution in adding 10G link capability to an SMB network



IPv4/IPv6 Static Routing

Offload routing processes to the managed PoE+ switch by using the L2+ IPv4/IPv6 static routing feature to efficiently route traffic at the switch level

Access Control

Includes ACL, SSL, MAC/port filtering, 802.1X, TACACS+, and RADIUS



Housing Design

Sturdy rack mountable metal housing

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SPECIFICATIONS

Standards

- IEEE 802.1d
- IEEE 802.1p
- IEEE 802.1Q
- IEEE 802.1s
- IEEE 802.1w
- IEEE 802.1X
- IEEE 802.1ab
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3x
- IEEE 802.3z
- IEEE 802.3ab
- IEEE 802.3ad
- IEEE 802.3ae
- IEEE 802.3af
- IEEE 802.3at
- IEEE 802.3az

Device Interface

- 48 x Gigabit PoE+ ports
- 4 x 10G SFP+ ports
- 1 x RJ-45 console port (out-of-band)
- 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)
- SFP: 2000Mbps (full duplex)
- SFP+: 20Gbps (full duplex)

Performance

- Switch fabric: 176Gbps
- RAM buffer: 2MB
- MAC Address Table: 32K entries
- Jumbo Frames: 9KB
- HOL Blocking Prevention
- Forwarding rate: 130.95Mpps (64-byte packet size)

Management

- CLI (Telnet / SSHv2)
- 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 and LLDP-MED
- Virtual Cable Diagnostics Test
- IPv6: IPv6 Neighbor Discovery, IPv6 Static IP, DHCPv6, Auto configuration
- Dual image and configuration

MIB

- RMON MIB RFC 1271
- LLDP MIB IEEE 802.1ab
- RFC 1213 MIB II
- RFC 1643 Ethernet intf MIB
- RFC 1493 bridge MIB

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

- 802.1Q Tagged VLAN
- Dynamic GVRP
- Up to 256 VLAN groups, ID Range 1-4094
- Private VLAN (Protected Ports)
- Voice VLAN (10 user defined OUIs)

Multicast

- IGMP Snooping v1, v2, v3 (per VLAN)
- MLD Snooping v1, v2
- IGMP fast leave
- Up to 256 multicast entries

Port Mirror

- RX, TX, or Both
- · Many to one

Access Control

 802.1X Port-Based Network Access Control, RADIUS, TACACS+

TPE-3524SF

- Local Dial-In User Authentication
- DHCP Snooping
- Loopback Detection
- Trusted Host
- Denial of Service (DoS)
- IP MAC port binding
- Block unknown multicast

ACL IPv4 L2-L4 & IPv6

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

IPv4 / IPv6 static routing

ARP table (up to 128 entries)

IP interfaces: Up to 6

Inter-VLAN routing

PoE budget: 740W

· PD auto classification

for power

Fan/Acoustics

Quantity: 3

Smart Fan

• 70,599 hours

Operating Temperature

• 0° - 50° C (32° - 122° F)

MTBF

802.3at: Up to 30W per port

· Over current/short circuit protection

Noise Level: 42.7 dBa (max.)

Power

PoE

supply

- 802.1p
- TOS (IPv4 only)

Layer 3 Features

IPv4 Address and Mask (IPv4 only)

IPv6 Address and Prefix Length (IPv6 only)

Routing table entries: Up to 32 (IPv4 / IPv6)

Input: 100 – 240V AC, 50/60Hz, internal power

Max. consumption: 52W (No PD connected)

• PoE Mode A: Pins 1, 2 for power and pins 3.6



Operating Humidity

• Max. 95% non-condensing

Dimensions

• 440 x 310 x 44mm (17.32 x 12.2 x 1.73 in.)

Weight

• 4.725kg (10.41 lbs.)

Certifications

- CE
- FCC
- UL

Warranty

Lifetime warranty

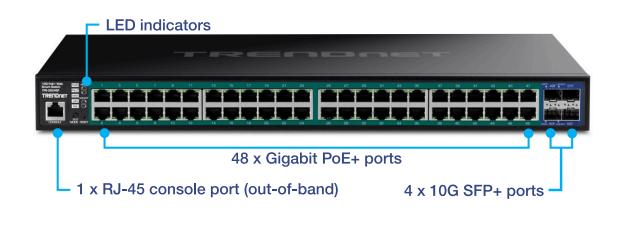
Package Contents

- TPE-3524SF
- Quick Installation Guide
- Power cord (1.5m / 5 ft.)
- · Console Cable (1m / 3.28 ft.)
- Rackmount brackets

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.

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20675 Manhattan Place • Torrance • CA 90501 • USA • T: 1-888-326-6061 • sales@trendnet.com • www.TRENDnet.com

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