



18-Port 2.5G PoE++ Web Smart Switch with 10G SFP+ Slots

TPE-3182WSB (V1)

- 16 x 2.5G PoE++ ports
- 2 x 10G SFP+ ports
- 450W PoE budget
- Perpetual PoE & Fast PoE minimize wait time for powering up PoE devices
- PoE alive check automatically attempts to recover an unresponsive PoE device
- Remote cloud management with TRENDnet Hive™ (Additional fee may apply)
- Lifetime Warranty
- NDAA / TAA compliant (U.S. and Canada only)

TRENDnet's 18-Port Multi-Gig PoE++ Web Smart Switch, model TPE 3182WSB, is an 18 port multi gig 802.3bt PoE++ web smart switch designed for SMB networks needing higher performance and advanced control. It provides 16 x 2.5G PoE++ ports, two 10G SFP+ uplinks, L2+ management, VLANs, QoS, LACP, and voice optimized VLAN support. With a 450W PoE budget delivering up to 95W per port, the multi-gigabit 802.3bt PoE++ switch powers high demand devices, such as access points, cameras, digital signage, and lighting. Active cooling enhances reliability, and TRENDnet Hive™ enables remote cloud based management without extra hardware, reducing deployment and maintenance efforts.



Multi-Gig Ports

Equipped with 16 high-speed 2.5G RJ45 ports that provide multi-gigabit speeds capable of up to 2.5Gbps over existing Cat5e cabling, and two ultra-fast 10G SFP+ ports for long-distance fiber connections.



PoE++

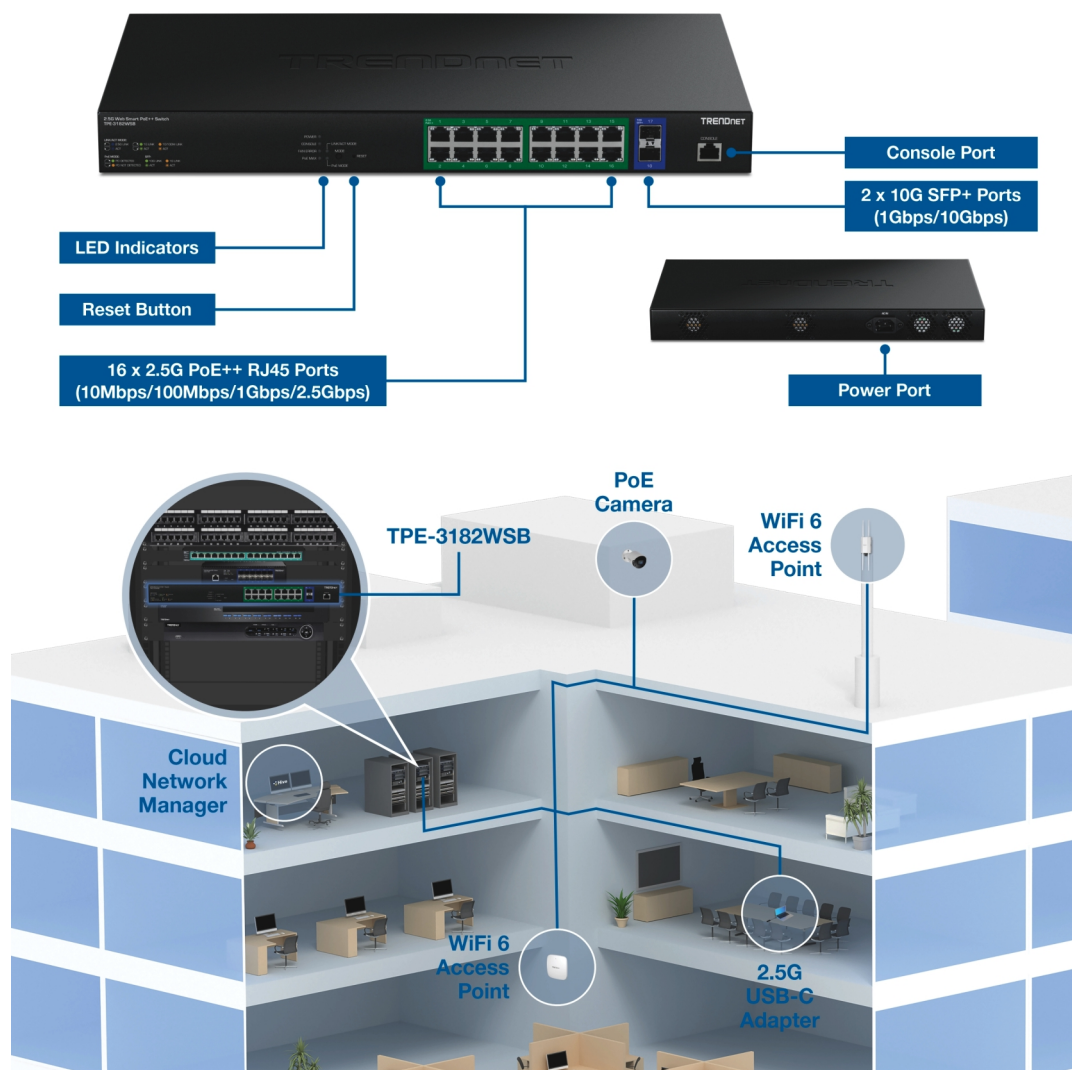
This multi gig high-power PoE++ switch provides a 450W total PoE budget, supporting 16 PoE devices with up to 95W per port.



Web Smart Management

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

NETWORKING SOLUTION



FEATURES



2.5G Ports

Equipped with 16 x 2.5G RJ45 ports for faster networking speeds over existing Cat5e cabling



10G SFP+ Ports

Offers 10G SFP+ ports for high-speed connections, providing a cost-effective solution in adding 10G link capability



PoE++

16 PoE++ ports provide up to 95W of power per port



High Power

Provides a total 450W PoE power budget



Fast PoE

With Fast PoE, the multi-gigabit managed PoE++ switch provides power to a connected PoE device within a few seconds of the switch receiving power—no need to wait for the switch to fully boot up



Perpetual PoE

Continuously sends power to your PoE PD devices during a switch reboot or a firmware update



Hive Enabled

Remotely manage, configure, and diagnose this web smart switch via the TRENDnet Hive cloud service (Additional fee may apply)



Traffic Management

A broad range of network configurations are supported by: 802.3ad link aggregation, Asymmetric VLAN, 802.1Q VLAN, Voice VLAN, RSTP, MSTP, Loopback Detection, GVRP, 802.1p Class of Service (CoS), port bandwidth management, and QoS queue scheduling



IPv6 Ready

This managed multi-gigabit 802.3bt PoE++ switch supports IPv6 configuration and IPv6 neighbor discovery



Troubleshooting

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



Access Control

This 2.5G managed switch includes advanced features, such as ACL, SSL, MAC/port filtering, 802.1X, TACACS+, and RADIUS



Monitoring

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



Web Smart Management

The managed multi-gigabit 802.3bt PoE++ switch provides an easy-to-use web-based GUI management for reduced switch configuration complexity, and offers a combination of SMB management features for easy deployment



Housing Design

Sturdy metal housing



Rackmount Design

This high-power PoE++ switch is well-suited for a 1U rack installation with the included rackmount brackets



Jumbo Frame

Sends larger packets, or Jumbo Frames (up to 12KB), for increased performance



LED Indicators

LED indicators on this multi-gigabit 802.3bt PoE++ switch convey port status



Integration Flexibility

Advanced managed features on this 2.5G managed switch include access control lists, VLAN, IGMP snooping, QoS, RMON, SNMP trap, and syslog for monitoring and flexible network integration

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
- IEEE 802.3bt
- IEEE 802.3bz

Device Interface

- 16 x 2.5G PoE++ RJ45 ports (10Mbps/100Mbps/1Gbps/2.5Gbps)
- 2 x 10G SFP+ ports (1Gbps/10Gbps)
- LED indicators
- Reset button

Performance

- Switching fabric: 120Gbps
- RAM Buffer: 1.5MB
- MAC Address Table: 16K entries
- Jumbo Frames: 12KB
- HOL Blocking Prevention
- Forwarding rate: 89.26 Mpps (64-byte packet size)

Management

- CLI (Telnet / SSHv2) limited administration only
- 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 Diagnostics Test
- IPv6: IPv6 Neighbor Discovery, IPv6 Static IP, DHCPv6, Auto configuration
- Dual image
- Dual configuration
- TC Root/Protect
- Ping Watch Dog

Hive Cloud Management

- Configure, monitor, and manage through the TRENDnet Hive Cloud Management Portal remotely via PC or Mac web browser
- Multi-device management
- Provisioning through scheduled batch firmware or configuration updates for multiple switches
- Event/hardware network monitoring (CPU/memory utilization)
- Enable & disable PoE, set PD (powered device) alive check, configure PoE scheduling, and monitor PoE budget utilization (for PoE switches only)
- Configure features such as IP address settings, VLANs, spanning tree, loopback detection, IGMP snooping, link aggregation, and bandwidth control through cloud management

MIB

- IP FORWARD TABLE MIB RFC 1354
- IPV6 MIB RFC 2465
- GVRP MIB IEEE 802.1Q-VLAN
- LA MIB IEEE 802.3ad
- LLDP MIB IEEE 802.1AB
- SNMP MIB RFC 3415
- STP MIB RFC 4318
- PNAC MIB IEEE 802.1x
- VLAN MIB IEEE 802.1q
- ACL MIB
- BANDWIDTH CTRL MIB
- LBD MIB
- MIRROR MIB
- IPV6 NEIGHBOR MIB
- SNTP MIB
- STORM CTRL MIB
- STATISTICS MIB
- Tool MIB
- VOICE VLAN MIB
- DOS MIB

Spanning Tree

- IEEE 802.1D STP
- IEEE 802.1w RSTP
- IEEE 802.1s MSTP

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
- MAC-based VLAN
- Protocol-based VLA
- Up to 256 VLAN groups, ID Range 1-4094
- Private VLAN (Protected Ports)
- Voice VLAN (10 user defined OUIs)

Multicast

- IGMP Snooping v1, v2
- MLD Snooping v1
- IGMP fast leave
- MVR (Multicast VLAN Registration)
- Static Multicast Address
- 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+
- Local Dial In User Authentication
- DHCP Snooping (per VLAN)
- Loopback Detection
- Duplicated Address Detection
- Trusted Host
- Denial of Service (DoS)
- IP MAC port binding
- Dynamic ARP inspection
- 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
- 802.1p
- DSCP (IPv4 only)
- IPv6 Address (IPv6 only)

Layer 3 Features

- IPv4 / IPv6 static routing
- IP interfaces: Up to 8
- Routing table entries: Up to 32 (IPv4 / IPv6)
- ARP table (up to 128 entries)
- Inter-VLAN routing

Utility

- Optional Software Utility: Windows® 11 & 10

Power

- Input: 100 - 240 V AC, 50/60 Hz, internal power supply
- Max. Consumption: 30.72W (no PoE load)

PoE

- PoE budget: 450W
- 802.3bt: Up to 95W per port
- PoE++ Pins 3, 4, 5, 6 for power + and pins 1, 2, 7, 8 for power –
- PoE/PoE+ pins 3, 6 for power + and pins 1, 2 for power – (mode A)
- PD autclassification
- Over current/short circuit protection
- PD alive check
- Fast PoE
- Perpetual PoE

Fan/Acoustics

- Quantity: 3
- Smart fans
- Max. noise level 56.6dBA
- Active cooling control

MTBF

- 788,000 hours @ 25° C

Operating Temperature

- -5 – 50°C (23 - 122°F)

Operating Humidity

- Max. 95% non-condensing

Dimensions

- 440 x 250 x 44 mm (17.32 x 9.84 x 1.73 in.)
- Rack mountable 1U height

Weight

- 3.77 kg (8.3 lbs.)

Certifications

- CE
- FCC
- UL

Warranty

- Lifetime Warranty

Package Contents

- TPE-3182WSB
- Power cord (1.8m/6 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.