

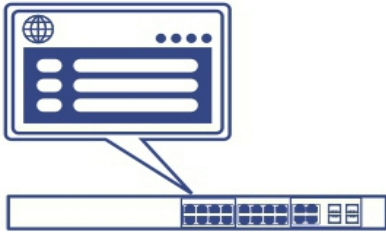


20-Port Gigabit Web Smart Ultra PoE Switch

TPE-204US (v1.0R)

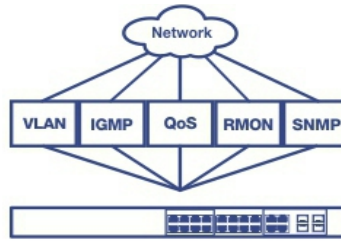
- 8 x Gigabit UPoE ports
- 8 x Gigabit PoE+ ports
- 4 x Shared Gigabit ports (RJ-45 or SFP)
- Supports PoE (15.4W), PoE+ (30W), and UPoE (60W) power
- 370W PoE power budget
- Easy-to-use web-based management interface
- Supports IPv6, LACP, VLAN, QoS, and IGMP Snooping
- Bandwidth control per port
- Private and Voice VLAN support
- Smart Fan
- 40Gbps switching capacity
- IEEE 802.1p QoS with queue scheduling support

TRENDnet's 20-Port Gigabit Web Smart UPoE Switch, model TPE-204US, delivers advanced management features with a 40Gbps switching capacity. This rack mountable IPv6 ready switch comes with an intuitive web-based interface. Advanced traffic management controls with SNMP monitoring make this a powerful solution for SMB networks. The TPE-204US provides eight gigabit UPoE ports and eight gigabit PoE+ ports with a total power budget of 370W, and four shared gigabit ports (RJ-45 or SFP). The UPoE standard supplies up to 60W of power per port for devices such as high power wireless access points, PTZ (Pan Tilt Zoom) IP cameras, and VoIP telephony systems.



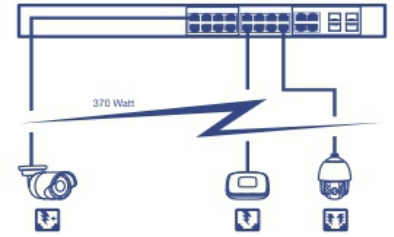
Web Smart Management

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



Integration Flexibility

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



UPoE Power

A 370W PoE power budget supplies power to PoE/PoE+/UPoE devices.

Networking Solution



Hardware Design

Features 8 gigabit UPoE ports, 8 gigabit PoE+ ports, 4 shared gigabit ports (RJ-45 or SFP), and 1U rackmount design (brackets included).



IPv6 Ready

This switch supports IPv6 address configuration and IPv6 neighbor discovery.



Troubleshooting

A convenient cable diagnostic test and traffic statistics helps with network troubleshooting.



PoE Power

Supplies a PoE device with PoE (15.4W), PoE+ (30W), or UPoE (60W) power, and a total PoE power budget of 370W.



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.



Access Control

Features access controls such as ACL, SSL, MAC/port filtering, 802.1X, TACACS+, and RADIUS.



Monitoring

RMON, SNMP, SNMP Trap, and Port Mirroring support.

Specifications

Standards	<ul style="list-style-type: none"> • 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 802.3af • IEEE 802.3at • IEEE 802.3az • IEEE 802.3bt (draft) 	IPV6 NEIGHBOR MIB	<ul style="list-style-type: none"> • SNMP MIB • STORM CTRL MIB • STATISTICS MIB • TOOL MIB • VOICE VLAN MIB • DOS MIB
Device Interface	<ul style="list-style-type: none"> • 8 x Gigabit Ultra PoE ports • 8 x Gigabit PoE+ ports • 4 x Gigabit shared ports (RJ-45 or SFP) • LED indicators • LED Display mode button (toggles LED indicators to display link/activity or PoE only port status) 	Spanning Tree	<ul style="list-style-type: none"> • IEEE 802.1d STP (Spanning Tree protocol) • IEEE 802.1w RSTP (Rapid Spanning Tree protocol) • IEEE 802.1s MSTP (Multiple Spanning Tree protocol)
Data Transfer Rate	<ul style="list-style-type: none"> • Ethernet: 10Mbps (half duplex), 20Mbps (full duplex) • Fast Ethernet: 100Mbps (half duplex), 200Mbps (full duplex) • Gigabit Ethernet: 2000Mbps (full duplex) 	Link Aggregation	<ul style="list-style-type: none"> • 802.3ad Dynamic LACP • Static Link Aggregation
Performance	<ul style="list-style-type: none"> • Switch fabric: 40Gbps • RAM buffer: 512KB • MAC Address Table: 8K entries • Jumbo Frames: 10KB • HOL Blocking Prevention • Forwarding rate: 29.8Mpps (64-byte packet size) 	Quality of Service (QoS)	<ul style="list-style-type: none"> • 802.1p Class of Service (CoS) • DSCP (Differentiated Services Code Point) • Bandwidth control per port • Queue Scheduling: strict priority, weighted round robin (WRR)
Management	<ul style="list-style-type: none"> • 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 	VLAN	<ul style="list-style-type: none"> • Multiple management VLAN assignment • Asymmetric VLAN • 802.1Q Tagged VLAN • GVRP • Up to 256 VLAN groups, ID Range 1-4094 • Private VLAN (Protected Ports) • Voice VLAN (10 user defined OUIs)
MIB	<ul style="list-style-type: none"> • IP FORWARD TABLE MIB RFC 1354 • RMON MIB RFC 1271 • IPV4 MIB RFC 1213 • IPV6 MIB RFC 2465 • GVRP MIB IEEE 802.1Q-VLAN • LA MIB IEEE 802.3ad • LLDP MIB IEEE 802.1AB • IGMP SNOOPING MIB RFC 2933 • MLD SNOOPING MIB RFC 3019 • PRIVATE VLAN MIB IEEE 802.1Q • DHCP SNOOP MIB RFC 2026 • QOS MIB RFC 4323 • SNMP MIB RFC 3415 • STP MIB RFC 4318 • PNAC MIB IEEE 802.1x • VLAN MIB IEEE 802.1q • DNS MIB RFC 1611 • ACL MIB • BANDWIDTH CTRL MIB • LBD MIB • MIRROR MIB 	Multicast	<ul style="list-style-type: none"> • IGMP Snooping v1, v2, v3 • Static Multicast Address • Up to 256 multicast entries
		Port Mirror	<ul style="list-style-type: none"> • Rx, Tx, or Both • One to one, many to one
		Encryption	<ul style="list-style-type: none"> • 802.1X Port-Based Network Access Control , RADIUS, TACACS+ • Local Dial-in User Authentication • DHCP Snooping • Loopback Detection • Duplicated Address Detection • Trusted Host • Denial of Service (DoS)
		ACL IPv4 L2-L4 & IPv6	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Optional Software Utility: Windows® 10, 8.1, 8, 7, and Windows® Server 2003/2008/2012/2016
		Power	<ul style="list-style-type: none"> • Input: 100 – 240V AC, 50/60Hz, internal power supply • Max. consumption: 25.2W (No PoE load)
		PoE	<ul style="list-style-type: none"> • PoE budget: 370W • 802.3at: up to 30W per port (ports 1-8) • 802.3bt: up to 60W per port (ports 9-16) • Mode A: Pins 1,2 for power+ and pins 3,6 for power – (mode A) • PD auto/manual classification • PoE port priority • PoE power scheduling • Over current/short circuit protection
		Fan/Acoustics	<ul style="list-style-type: none"> • Quantity: 2 • Max Noise Level: 52.8 dBA
		MTBF	<ul style="list-style-type: none"> • 279,589 hours

Operating Temperature	• -5° – 50°C (23° - 122°F)
Operating Humidity	• Max. 95% non-condensing
Dimensions	• 440 x 250 x 44mm (17.3 x 9.8 x 1.74 in.) • Rack mountable 1U height
Weight	• 3.86kg (8.49 lbs.)
Certifications	• CE • FCC • UL
Warranty	• Lifetime Warranty*

PACKAGE CONTENTS

- TPE-204US
- Quick Installation Guide
- Power cord (1.8m/6 ft.)
- Rackmount kit

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.

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.