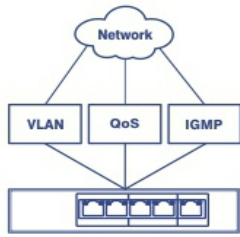


## 5-Port Gigabit PoE+ Powered EdgeSmart Switch with PoE Pass Through

TPE-P521ES (v1.0R)

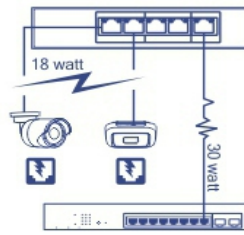
- 1 x Gigabit PoE+ input port
- 2 x Gigabit PoE output ports
- 2 x Gigabit ports
- 18W PoE power budget
- Easy to use web-based management interface
- Supports static link aggregation, VLAN, QoS, STP, RSTP and IGMP Snooping
- Voice VLAN for VoIP applications
- Bandwidth control per port
- 10Gbps switching capacity
- IEEE 802.1p QoS with queue scheduling support
- Compact fanless design
- Wall mountable metal housing

5-Port Gigabit PoE+ Powered EdgeSmart Switch with PoE Pass Through, model TPE-P521ES, is powered by a PoE+ switch or injector, no AC adapter is required. It features two gigabit non-PoE ports, and two gigabit PoE ports to power devices such as IP cameras, VoIP handsets, and wireless access points. Reducing unnecessary switch complexity, this EdgeSmart switch is equipped with only the most commonly used managed switch features. The simple web-based user interface allows you to easily manage VLANs, QoS, and monitoring.



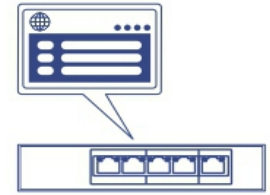
### Integration Flexibility

Managed features include access control lists, VLAN, IGMP Snooping, and QoS for flexible network integration.



### PoE+ Powered

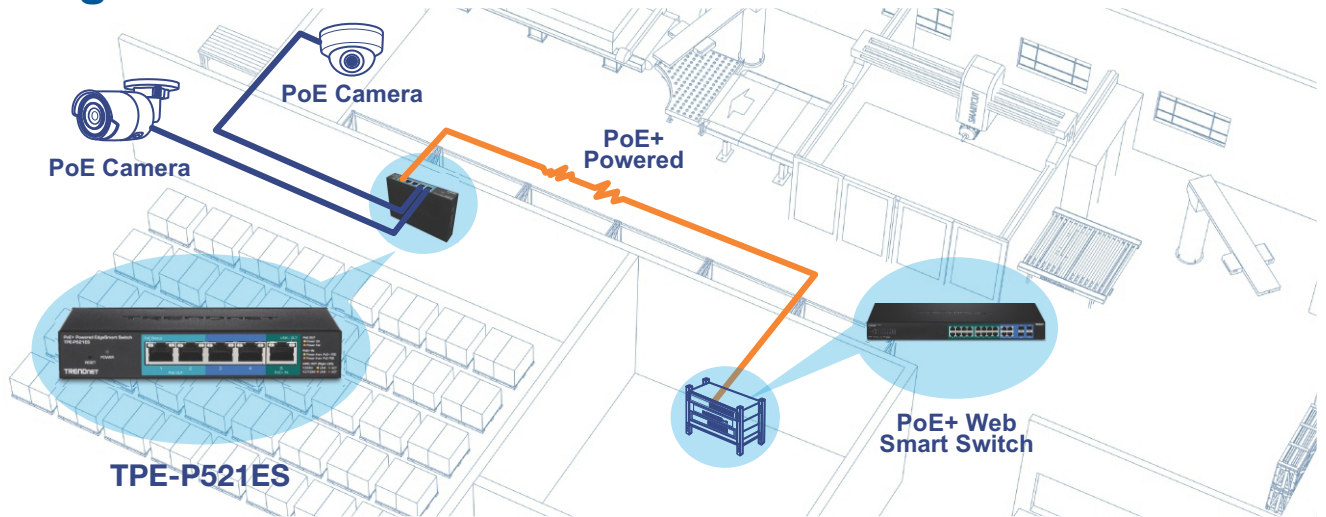
No AC adapter required—this switch is powered by a PoE+ switch or injector, and features two gigabit non-PoE ports, and two gigabit PoE ports to power devices such as IP cameras.



### EdgeSmart Management

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

## Networking Solution



### Ports

One gigabit PoE+ input port, two gigabit PoE output ports, and two gigabit ports provides a 10Gbps switching capacity



### LED Indicators

LED indicators convey port status



### Troubleshooting

Traffic statistics and a convenient cable diagnostic test aid in network troubleshooting.



### Network Management

A broad range of network configurations are supported by: static link aggregation, 802.1Q VLAN, bandwidth controls, IGMP, loopback detection, port mirroring, STP, RSTP and 802.1p (QoS).



### Compact Design

With a compact and lightweight housing design this switch is well-suited for desktop installations. Its fanless design is ideal for quiet environments that require silent operation.



### Housing

Compact wall mountable metal housing



### PoE Power

Two gigabit PoE pass through ports with an 18W total PoE power budget

## Specifications

<b>Standards</b>	<ul style="list-style-type: none"> <li>• IEEE 802.1d</li> <li>• IEEE 802.1w</li> <li>• IEEE 802.1p</li> <li>• IEEE 802.1Q</li> <li>• IEEE 802.3</li> <li>• IEEE 802.3u</li> <li>• IEEE 802.3x</li> <li>• IEEE 802.3ab</li> <li>• IEEE 802.3af</li> <li>• IEEE 802.3at</li> <li>• IEEE 802.3az</li> </ul>	<b>Multicast</b>	<ul style="list-style-type: none"> <li>• IGMP Snooping v1/2/3</li> <li>• Block unknown multicast source</li> <li>• Up to 32 multicast groups</li> </ul>
<b>Device Interface</b>	<ul style="list-style-type: none"> <li>• 1 x Gigabit PoE+ PD port</li> <li>• 2 x Gigabit PoE PSE ports</li> <li>• 2 x Gigabit Ports</li> <li>• LED indicators</li> <li>• Reset button</li> </ul>	<b>Port Mirror</b>	<ul style="list-style-type: none"> <li>• One to one</li> <li>• Many to one</li> </ul>
<b>Data Transfer Rate</b>	<ul style="list-style-type: none"> <li>• Ethernet: 10Mbps (half duplex), 20Mbps (full duplex)</li> <li>• Fast Ethernet: 100Mbps (half duplex), 200Mbps (full duplex)</li> <li>• Gigabit Ethernet: 2000Mbps (full duplex)</li> </ul>	<b>Storm Control</b>	<ul style="list-style-type: none"> <li>• Broadcast (Min. Limit: 8Kbps)</li> <li>• Multicast (Min. Limit: 8Kbps)</li> <li>• Loopback Detection</li> </ul>
<b>Performance</b>	<ul style="list-style-type: none"> <li>• Switch fabric: 10Gbps</li> <li>• RAM buffer: 512KB</li> <li>• MAC Address Table: 2K entries</li> <li>• Jumbo Frames: 9KB</li> <li>• Forwarding rate: 7.44Mpps (64-byte packet size)</li> </ul>	<b>Special Features</b>	<ul style="list-style-type: none"> <li>• PoE Powered</li> <li>• Enable/disable 802.3az Power Saving</li> <li>• Wall mountable</li> </ul>
<b>Management</b>	<ul style="list-style-type: none"> <li>• HTTP Web based GUI</li> <li>• SNMP v1, v2c</li> <li>• Cable diagnostic test</li> <li>• Backup/Restore Configuration</li> <li>• Upload Firmware</li> </ul>	<b>Power</b>	<ul style="list-style-type: none"> <li>• IEEE 802.3at (30W) or IEEE 802.3af (15.4W) PoE input only (no external power supply)</li> <li>• IEEE 802.3at Type 2 PoE PD Class 4</li> <li>• IEEE 802.3af Type 1 PoE PD Class 0</li> <li>• Max. Consumption 2.4W (without PoE load)</li> <li>• Max. Consumption 20.4W (with max PoE load)</li> </ul>
<b>Spanning Tree</b>	<ul style="list-style-type: none"> <li>• IEEE 802.1d STP (spanning tree protocol)</li> <li>• IEEE 802.1w RSTP (rapid spanning tree protocol)</li> </ul>	<b>PoE</b>	<ul style="list-style-type: none"> <li>• 18W PoE Budget with IEEE 802.3at (30W) input power</li> <li>• 8W PoE Budget with IEEE 802.3af (15.4W) input power</li> <li>• PoE Mode A: Pins 1,2 for power and pins 3,6 for power</li> <li>• PD auto classification</li> <li>• Over current/short circuit protection</li> </ul>
<b>Link Aggregation</b>	<ul style="list-style-type: none"> <li>• Static link aggregation (up to 2 groups)</li> </ul>	<b>Fan / Acoustics</b>	<ul style="list-style-type: none"> <li>• Fanless design</li> </ul>
<b>Quality of Service (QoS)</b>	<ul style="list-style-type: none"> <li>• Port-based QoS</li> <li>• 802.1p Class of Service (CoS)</li> <li>• Bandwidth Control/Rate Limiting per port (Min. Limit: 8Kbps)</li> <li>• Queue Scheduling: Strict Priority (SP), Weighted Fair Queueing (WFQ)</li> </ul>	<b>MTBF</b>	<ul style="list-style-type: none"> <li>• 730,455 hours</li> </ul>
<b>VLAN</b>	<ul style="list-style-type: none"> <li>• Port-based VLAN</li> <li>• 802.1Q Tagged VLAN</li> <li>• Up to 32 VLAN groups, ID Range 1-4094</li> <li>• Private VLAN</li> <li>• Asymmetric VLAN</li> <li>• Voice VLAN (5 user defined OUIs)</li> </ul>	<b>Operating Temperature</b>	<ul style="list-style-type: none"> <li>• 0° – 40° C (32° – 104° F)</li> </ul>
		<b>Operating Humidity</b>	<ul style="list-style-type: none"> <li>• Max. 90% non-condensing</li> </ul>
		<b>Dimensions</b>	<ul style="list-style-type: none"> <li>• 150 x 97 x 28.6mm (5.9 x 3.81 x 1.12 in.)</li> </ul>
		<b>Weight</b>	<ul style="list-style-type: none"> <li>• 370g (13.05 oz.)</li> </ul>
		<b>Certifications</b>	<ul style="list-style-type: none"> <li>• CE</li> <li>• FCC</li> </ul>
		<b>Warranty</b>	<ul style="list-style-type: none"> <li>• Lifetime Warranty</li> </ul>
<b>PACKAGE CONTENTS</b>			
<ul style="list-style-type: none"> <li>• TPE-P521ES</li> <li>• Quick Installation Guide</li> </ul>			

If 802.3at PoE+ powered, the device can supply PoE power for up to two PoE class 1 or class 2 PDs or one PoE class 0 or class 3 PD.

If 802.3af PoE powered, the device can supply PoE power for one PoE class 1 or class 2 PD.

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.

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