



## 8-Port Gigabit GREENnet PoE+ Switch TPE-TG81g (v1.0R)

TRENDnet's 8-Port Gigabit GREENnet PoE+ Switch, model TPE-TG81g, reduces equipment and installation costs by delivering data and power over existing Ethernet cables. This unmanaged switch offers eight Gigabit PoE+ ports which supply up to 30 watts of power per port for devices such as high power wireless access points, PTZ (Pan / Tilt / Zoom) internet cameras, and VoIP telephony systems.

This rack mountable switch features an internal power supply. Auto sensing technology delivers 30 watts to 802.3at PoE+ devices (up to 3 devices), 15 watts to 802.3af PoE devices, and only data to non-PoE devices. GREENnet technology reduces energy consumption by up to 75% when the switch is not in use. Boost office efficiency and reduce network congestion with a total switching capacity of 16 Gbps. LED indicators display device status for efficient troubleshooting. This switch comes in a sturdy metal case and quickly adds PoE+, PoE, and non-PoE devices to your network.

## PRODUCT OVERVIEW

- 8 x Gigabit PoE+ ports (up to 30 watts per PoE+ port)
- Internal power supply
- Up to 30 W per port with 105 W total power budget
- Reduces equipment cost by delivering data and power over existing network cables
- 16 Gbps switching capacity
- Sturdy rack mountable metal case
- Up to 75% GREENnet power savings



## FEATURES

- IEEE 802.3at and IEEE 802.3af Power over Ethernet (PoE) compliant
- Supports PoE Class 2 (7 watts), 3 (15.4 watts), and 4 (30 watts)
- 8 x Gigabit Auto-MDIX PoE / PoE+ ports
- Internal power supply
- Up to 75% GREENnet energy savings
- Provides up to 30 watts for PoE+ (3 ports max.)
- Provides up to 15.4 watts for PoE
- Automatically detects the PoE class level of a Powered Device
- 16 Gbps switching fabric
- Forwarding rate: 1000 Mbps / 1,488,000pps; 100 Mbps / 148,800 pps; 10 Mbps / 14,880 pps
- Status LEDs: System Power, PoE, 1000 Mbps, and Link / Activity
- 2K Mac address entries
- 96 Kbyte memory buffer
- Full wire-speed non-blocking reception and transmission
- Store-and-forward switching method
- Back pressure Flow Control for Half-Duplex mode
- IEEE 802.3x Flow Control for Full-Duplex mode
- Power saving technology powers down unused ports and when a connected device is in standby mode
- Jumbo Frame support up to 9 Kbytes
- Plug and Play
- Sturdy rack mountable metal case
- 3-year limited warranty



## SPECIFICATIONS

### HARDWARE

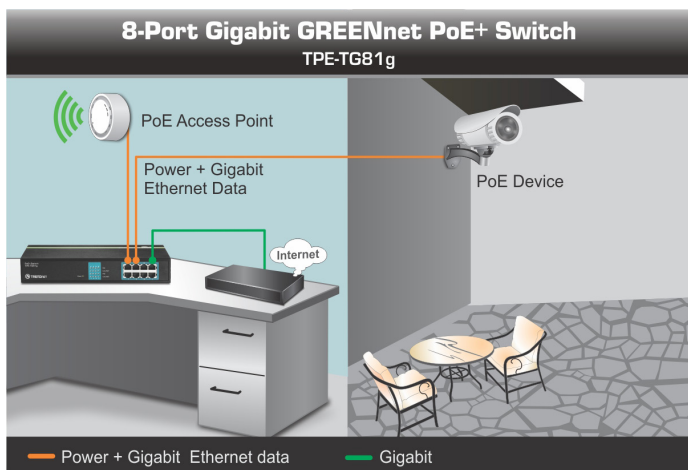
<b>Standard</b>	<ul style="list-style-type: none"><li>• IEEE 802.3 10Base-T</li><li>• IEEE 802.3u 100Base-TX</li><li>• IEEE 802.3ab 1000Base-T</li><li>• IEEE 802.3at Power over Ethernet (PoE+)</li><li>• IEEE 802.3af Power over Ethernet (PoE)</li><li>• IEEE 802.3x Flow Control</li><li>• IEEE 802.3az Energy Efficient Ethernet</li></ul>
<b>Ports</b>	<ul style="list-style-type: none"><li>• 8 x Gigabit Auto-MDIX PoE / PoE+ RJ-45 ports</li></ul>
<b>Data Transfer Rate</b>	<ul style="list-style-type: none"><li>• Ethernet: 10/20 Mbps (Half / Full Duplex)</li><li>• Fast Ethernet: 100/200 Mbps (Half / Full Duplex)</li><li>• Gigabit: 2000 Mbps (Full Duplex)</li></ul>
<b>Forwarding Rate</b>	<ul style="list-style-type: none"><li>• Gigabit / 1,488,000 pps, 100 Mbps / 148,800 pps, 10 Mbps / 14,880 pps</li></ul>
<b>Data RAM Buffer</b>	<ul style="list-style-type: none"><li>• 96 Kbytes</li></ul>
<b>Address Table</b>	<ul style="list-style-type: none"><li>• 2 K MAC entries</li></ul>
<b>Switch Fabric</b>	<ul style="list-style-type: none"><li>• 16 Gbps</li></ul>
<b>Power</b>	<ul style="list-style-type: none"><li>• 90-260 V, 50/60 Hz, 1 A</li></ul>
<b>Diagnostic LEDs</b>	<ul style="list-style-type: none"><li>• Power, PoE, Link / Activity</li></ul>
<b>Power Consumption</b>	<ul style="list-style-type: none"><li>• Min: 8 Watts (standby)</li><li>• Max: 122 Watts</li><li>• PoE Max: 105 Watts (7 x 15 watts PoE devices connected or 3 x 30 Watts PoE+ devices connected)</li></ul>
<b>Temperature</b>	<ul style="list-style-type: none"><li>• Operating: 0° ~ 45°C (32° ~ 113°F)</li><li>• Storage: -20° ~ 90°C (-4° ~ 194°F)</li></ul>
<b>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>• 266 x 160 x 44 mm (10.5 x 6.3 x 1.7 in.)</li></ul>
<b>Weight</b>	<ul style="list-style-type: none"><li>• 1.36 kg (3 lbs.)</li></ul>
<b>Certifications</b>	<ul style="list-style-type: none"><li>• CE, FCC</li></ul>
<b>PoE</b>	
<b>Power over Ethernet</b>	<ul style="list-style-type: none"><li>• Up to 15.4 watts for PoE</li><li>• Up to 30 watts for PoE+</li><li>• PoE: pin 3,6 for power+ and pin 1,2 for power- (mode A)</li></ul>

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## NETWORKING SOLUTIONS



## PACKAGE CONTENTS

TPE-TG81g

Quick Installation Guide

Power Cord

Rack mount brackets

## RELATED PRODUCTS

TV-IP672PI	Megapixel PoE Day / Night PTZ Internet Camera
TPE-114GS	Gigabit Power over Ethernet (PoE) Splitter
TPE-TG44g	8-Port Gigabit GREENnet PoE+ Switch

## CONTACT INFORMATION

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