



## 8-Port Gigabit GREENnet PoE+ Switch TPE-TG80g (v1.0R)

TRENDnet's 8-Port Gigabit GREENnet PoE+ Switch, model TPE-TG80g, 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.

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)
- 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 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
- Provides up to 30 watts for PoE+
- 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 (1,488,000 pps), 100 Mbps (148,800 pps), 10 Mbps (14,880 pps)
- Status LEDs: System Power, PoE, 1000 Mbps, and Link/Activity
- 1K 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 9K
- Plug and Play
- Sturdy 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+ 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>• 1,000 Mbps: 1,488,000 pps</li><li>• 100 Mbps: 148,800 pps</li><li>• 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>• 1K 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>• Input: 100-240V 50/60 Hz, 2.1A</li><li>• Output: 52VDC, 2.31A External Power Adapter</li></ul>
<b>Diagnostic LEDs</b>	<ul style="list-style-type: none"><li>• Power, PoE, 1000 Mbps, Link/Activity</li></ul>
<b>Power Consumption</b>	<ul style="list-style-type: none"><li>• Min: 5 watts (standby)</li><li>• Max: 120 watts</li><li>• PoE Max: 105 watts</li><li>• (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° ~ 40°C (32° ~ 104°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>• 142 x 95 x 30 mm (5.6 x 3.7 x 1.2 in.)</li></ul>
<b>Weight</b>	<ul style="list-style-type: none"><li>• 400 g (14 oz.)</li></ul>
<b>Certifications</b>	<ul style="list-style-type: none"><li>• CE, FCC</li></ul>

### POE

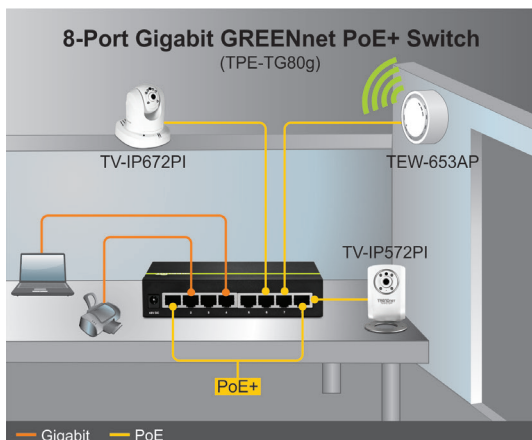
<b>Power over Ethernet</b>	<ul style="list-style-type: none"><li>• Up to 15.4 watts for PoE</li><li>• Up to 30 watts for PoE+</li><li>• PoE: pin 3, 6 for power+ and pin 1, 2 for power- (mode A)</li></ul>
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## NETWORKING SOLUTIONS



## PACKAGE CONTENTS

TPE-TG80g

Quick Installation Guide

Power Adapter (52V DC, 2.31A)

## RELATED PRODUCTS

**TPE-T88G** 16-Port GREENnet 10/100 Mbps PoE+ Switch

**TPE-114GS** Gigabit Power over Ethernet (PoE) Splitter

**TPE-TG44G** 8-Port Gigabit GREENnet PoE+ Switch

## CONTACT INFORMATION

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