

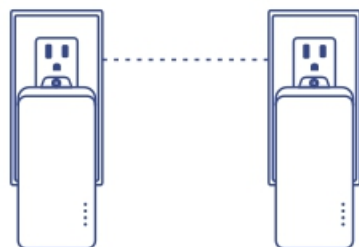


## Powerline 200 AV PoE+ Adapter

TPL-331EP (v1.0R)

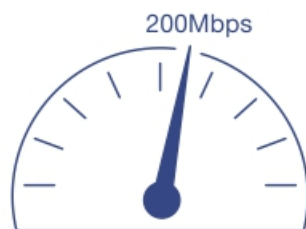
- Powerline 200 networking over existing electrical lines
- PoE+ output port for connecting PoE devices over a Powerline network
- Encrypted TRENDnet adapters auto-connect out of the box
- Powerline range of up to 300m (984 ft.) over existing electrical lines
- Two Powerline adapters are required to start a network
- Cross compatible with Powerline 1200, 600, and 500 adapters

TRENDnet's Powerline 200 AV PoE+ Adapter, model TPL-331EP, creates a high-speed Powerline 200 network using your home's existing electrical system. It features a PoE+ output port to connect PoE devices such as IP cameras, wireless access points and VoIP handsets over a Powerline network. Two adapters are needed to start a network. No CD installation required—encrypted TRENDnet adapters auto-connect out of the box. Plug in the first adapter and network it to your existing router. Plug in other adapters on the same electrical system and they auto-connect to the first adapter for instant internet access.



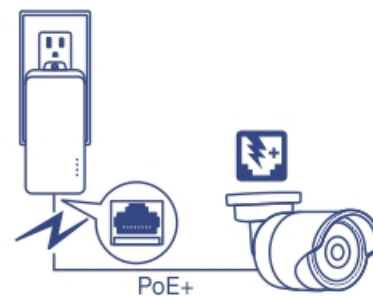
### Simple Plug-in Installation

No configuration needed! Simply plug in TRENDnet Powerline adapters and they will auto-connect right out of the box.



### Powerline 200

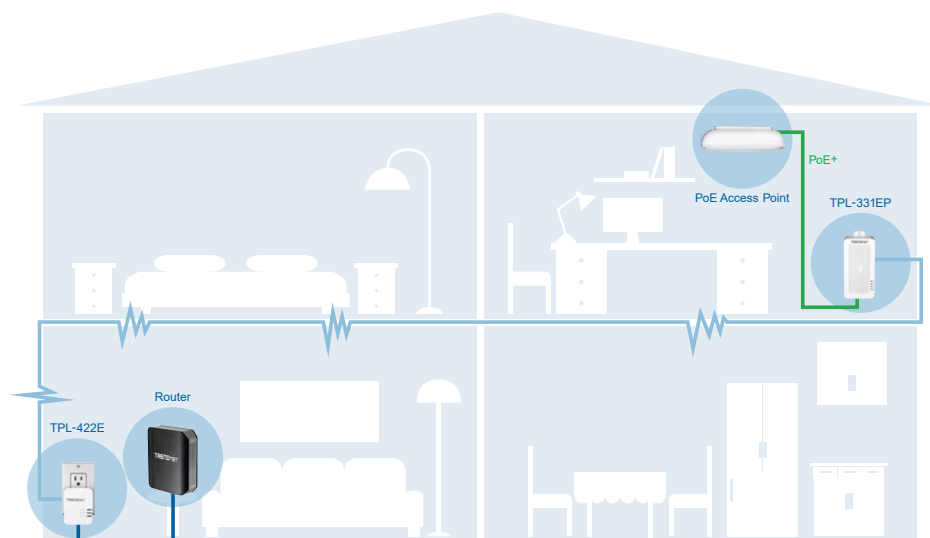
Powerline 200 technology delivers fast and stable networking to seamlessly connect devices.



### PoE+ Port

Features a PoE+ output port for connecting PoE devices such as IP cameras, wireless access points and VoIP handsets over a Powerline network.

## Networking Solution





### Sync Button

Press the Sync button to change existing Powerline encryption keys



### Powerline 200

Powerline 200 technology delivers fast and stable networking to seamlessly connect devices.



### PoE+ Port

Features a PoE+ output port for connecting PoE devices such as IP cameras, wireless access points and VoIP handsets over a Powerline network.



### Cross Compatibility

Cross compatible with Powerline 1200, 600, and 500 adapters



### Expandable

Use up to 8 adapters on a single Powerline network



### Easy Installation

TRENDnet adapters auto-connect out of the box



### 128-bit AES Encryption

Powerline communication is protected with 128-bit AES encryption

## Specifications

Standards	<ul style="list-style-type: none"> <li>• IEEE 802.3</li> <li>• IEEE 802.3u</li> <li>• IEEE 802.3x</li> <li>• IEEE 802.3af</li> <li>• IEEE 802.3at</li> </ul>
Device Interface	<ul style="list-style-type: none"> <li>• 1 x 10/100Mbps PoE+ port</li> <li>• Sync button</li> <li>• Reset button</li> <li>• LED indicators</li> </ul>
Frequency Band	• 2 – 28MHz
Modulation/Protocol	<ul style="list-style-type: none"> <li>• OFDM, 4096/1024/256/64/16/8-QAM, QPSK, BPSK, ROBO</li> <li>• CSMA/CA, TDMA, CSMA</li> </ul>
Data PHY Rate	• Up to 200Mbps
Networking Distance	• Powerline: Up to 300m (980ft.) linear distance over electrical power lines***
Encryption	• 128-Bit AES (Advanced Encryption Standard)
Powerline Nodes	• Up to 8 (max.)
Overlapping Powerline Networks	• Up to 4 (per electrical system)
Special Features	<ul style="list-style-type: none"> <li>• Auto-connects to other TRENDnet Powerline adapters</li> <li>• IPv6 support</li> <li>• IGMP / MLDv2 Streams</li> </ul>
Power	<ul style="list-style-type: none"> <li>• Input: 100 - 240V AC, 50-60Hz</li> <li>• Consumption: Active mode: 2.3W (max.); Standby mode: 1.7W (max.)</li> <li>• PoE Budget: 30 Watts (max.)</li> </ul>
Operating Temperature	• 0 – 55°C (32 – 131°F)
Operating Humidity	• Max. 93 % non-condensing
Certifications	<ul style="list-style-type: none"> <li>• FCC</li> <li>• IC</li> </ul>
Dimensions	• 156 x 67 x 43 mm (6.14 x 2.6 x 1.7 in.)
Weight	• 205g (7.2 oz.)
Warranty:	• 3 year

## PACKAGE CONTENTS

- TPL-331EP
- Quick Installation Guide
- Network cable (1.2m/4 ft.)

\* Maximum of 8 adapters (nodes) recommended for streaming video across your network.

\*\* 200Mbps is the maximum theoretical Powerline data rate when connected to another Powerline device. Data throughput may vary by circuit wire conditions.

\*\*\* Powerline communication works on a single electrical system. (Usually controlled by a single distribution panel). Power strip, GFCI outlets, and AFCI circuit breakers may degrade Powerline network signals.