

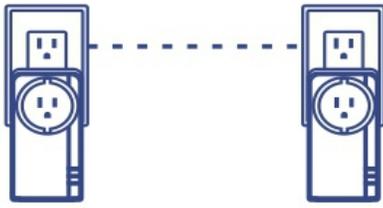


## Powerline 1300 AV2 Adapter with Built-in Outlet

TPL-423E (v1.0R)

- Powerline 1300 networking over existing electrical lines
- Built-in electrical outlet
- Powerline noise filter minimizes interference from powered devices
- Enhanced Powerline performance and coverage from MIMO with Beamforming technology
- Encrypted TRENDnet adapters auto-connect out of the box
- Gigabit port for high-speed connectivity
- Powerline range up to 300m (984 ft.)
- Two Powerline adapters are required to start a network
- Cross compatible with Powerline 1200, 600, 500, and 200 adapters

TRENDnet's Powerline 1300 AV2 Adapter with Built-in Outlet, model TPL-423E, creates a high-speed Powerline 1300 network using your home's existing electrical system. Two adapters are needed to start a network. TRENDnet adapters are protected with 128-bit AES encryption. Plug in the first adapter and network it to your existing router. Plug in other adapters on the same electrical system and they will auto-connect to the first adapter for instant internet access. Avoid losing a power outlet by using the built-in electrical outlet to power other devices.



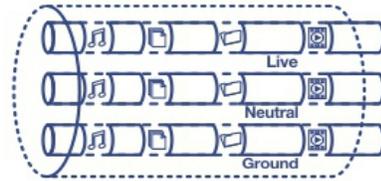
### Built-in Outlet

Avoid losing a power outlet by using the built-in electrical outlet to power other devices.



### High-Speed Powerline 1300

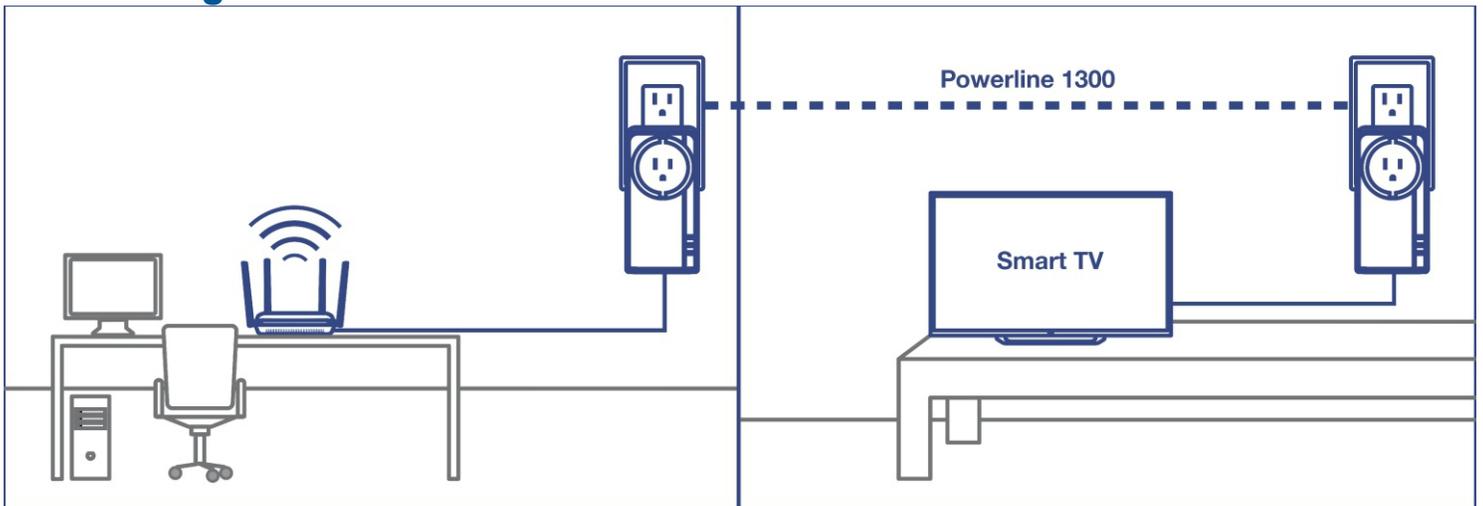
Powerline 1300 technology and a gigabit port deliver fast and stable networking to seamlessly connect devices and stream 4K video.



### MIMO Technology

Multiple Input Multiple Output (MIMO) with Beamforming technology uses live, neutral, and ground wires to increase performance between adapters.

## Networking Solution



### Sync Button

Press the Sync button to change existing Powerline encryption keys



### Cross Compatibility

Cross compatible with Powerline 1200, 600, 500, and 200 adapters



### Easy Installation

TRENDnet adapters auto-connect out of the box



### Powerline 1300

Powerline 1300 technology delivers fast and stable networking to seamlessly connect devices and stream 4K video.



### 128-bit AES Encryption

Powerline communication is protected with 128-bit AES encryption



### MIMO with Beamforming Technology

Multiple Input Multiple Output (MIMO) with Beamforming technology uses live, neutral, and ground wires to increase performance between adapters.



### Gigabit Port

Gigabit port for computers, smart TVs, or other network enabled devices



### Expandable

Use up to 8 adapters on a single Powerline network

## Specifications

<b>Standards</b>	<ul style="list-style-type: none"> <li>• IEEE 802.3</li> <li>• IEEE 802.3u</li> <li>• IEEE 802.3x</li> <li>• IEEE 802.3ab</li> <li>• IEEE 1901</li> </ul>
<b>Device Interface</b>	<ul style="list-style-type: none"> <li>• 1 x Gigabit LAN port</li> <li>• Sync button</li> <li>• Reset button</li> <li>• LED indicators</li> <li>• Built-in electrical power socket with noise filter North America Type B (NEMA 5–15) (10A max. @ 120V AC)</li> </ul>
<b>Power plug</b>	• North America Type B (NEMA 5–15)
<b>Frequency Band</b>	• 2 – 67.5MHz
<b>Modulation/ Protocol</b>	<ul style="list-style-type: none"> <li>• OFDM, 4096/1024/256/64/16/8-QAM, QPSK, BPSK, ROBO, HS-ROBO, Mini-ROBO</li> <li>• CSMA/CA</li> </ul>
<b>Data PHY Rate</b>	• Up to 1300Mbps
<b>Networking Distance</b>	• Powerline: Up to 300m (980ft.) linear distance over electrical power lines***
<b>Encryption</b>	• 128-Bit AES (Advanced Encryption Standard)
<b>Powerline Nodes</b>	• Up to 8 (max.)
<b>Overlapping Powerline Networks</b>	• Up to 4 (per electrical system)

<b>Special Features</b>	<ul style="list-style-type: none"> <li>• Built-in power socket</li> <li>• Auto-connects to other TRENDnet Powerline adapters</li> <li>• IPv6 support</li> <li>• IGMP / MLDv2 Streams</li> </ul>
<b>Optional Utility: OS Compatibility</b>	• Windows® 10, 8.1, 8, 7, Vista, XP
<b>Power</b>	<ul style="list-style-type: none"> <li>• Input: 100 - 240V AC, 50-60Hz</li> <li>• Consumption: Active mode: 4W (max.); Standby mode: 0.5W (max.)</li> </ul>
<b>Operating Temperature</b>	• 0 – 50°C (32 – 122°F)
<b>Operating Humidity</b>	• Max. 90 % non-condensing
<b>Certifications</b>	<ul style="list-style-type: none"> <li>• FCC</li> <li>• IC</li> <li>• ETL</li> </ul>
<b>Dimensions</b>	• 120 x 60 x 65mm (4.73 x 2.4 x 2.6 in.)
<b>Weight</b>	• 176g (6.2 oz.)
<b>Warranty</b>	• 3 year

### PACKAGE CONTENTS

- TPL-423E
- Quick Installation Guide
- CD-ROM (Utility & User's Guide)
- Network cable (1.5 m/5 ft.)

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

\*\* 1.3 Gbps is the maximum theoretical Powerline data rate when connected to another Powerline 1300 device. Data throughput may vary by circuit wire conditions. If an electrical system does not have a grounded connection, the theoretical networking speed is reduced to 650 Mbps.

\*\*\* 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.