



Powerline 1200 AV2 Adapter with Built-in Outlet

TPL-421E (v1.0R)

- Extreme Powerline 1200 networking over existing electrical lines
- Never lose an electrical outlet with the built-in socket
- Enhanced performance and range from MIMO with Beamforming technology
- Simply plug in the adapters—TRENDnet adapters auto-connect out of the box
- Pre-encrypted for your convenience
- Gigabit port maintains high performance wired networking
- Connects over electrical lines for homes up to 465 sq. m (5,000 sq. ft.)
- Two adapters are needed to start a network

TRENDnet's Powerline 1200 AV2 Adapter with Built-in Outlet, model TPL-421E, creates an extreme performance Powerline 1200 network using an existing electrical system. 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 immediate internet access. Never lose an electrical outlet with the built-in socket.



Plug In Install

Simply plug in TRENDnet adapters! The encrypted Powerline signal auto-connects over an existing electrical system.



For Busy Homes

Powerline 1200 technology and a Gigabit port deliver incredibly fast and stable networking to seamlessly connect devices and stream 4K video.

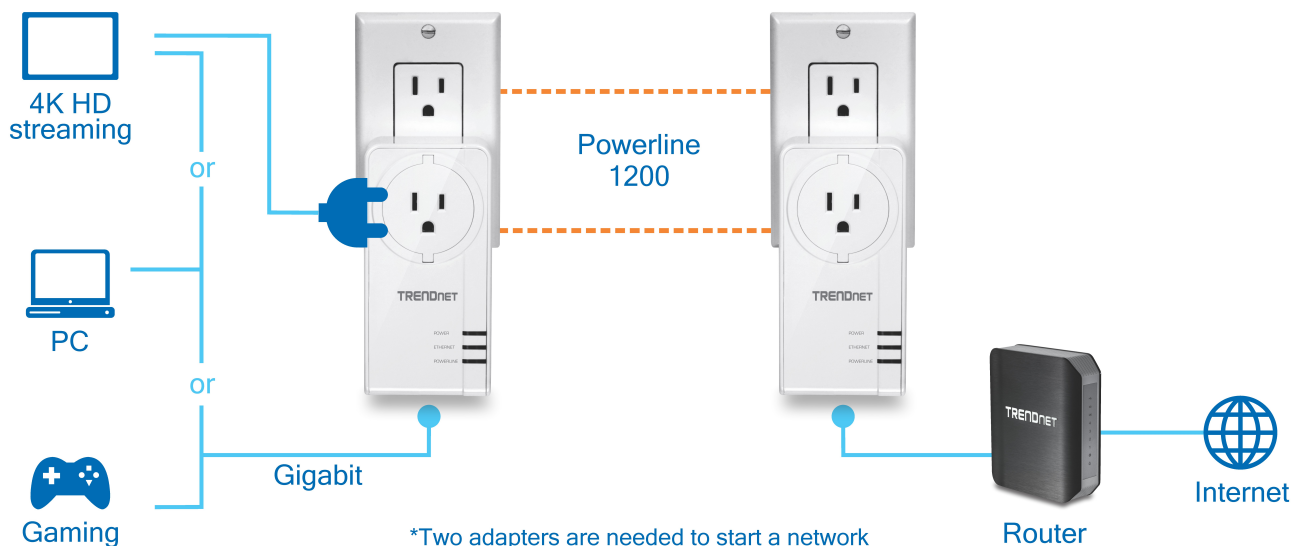


Built-In Outlet

With so many devices needing power, you don't lose an outlet when plugged in. Plug the adapter into an outlet, then plug a power strip into the adapter.

	Powerline 500/600 Up to 500/600 Mbps	Powerline 1200 Up to 1.2 Gbps
Speed		
Pre-encrypted security	✓	✓
Cross compatible	✓	✓
Home coverage	✓	✓
HD streaming	✓	✓
4K HD Streaming	✓	✓
MIMO with Beamforming technology (Uses multiple electrical lines to improve speed and coverage)		✓

Networking Solution





Powerline 1200

Extreme 1.2 Gbps Powerline networking over existing electrical lines use all three electrical wires: the live, neutral, and ground wires to achieve ground breaking networking throughput speeds**



Whole Home Coverage

Connects over electrical lines for homes up to 465 sq. m (5,000 sq. ft.) or over an electrical power line for a linear distance of 300 m (980 ft.)



Built-In Outlet

Never lose an electrical outlet with the built-in socket—Plug the adapter into an outlet, then plug a power strip into the TPL-421E to power other devices



MIMO with Beamforming Technology

Enhanced performance and range from MIMO with Beamforming technology



Gigabit Port

Gigabit port extends high performance wired connections



Noise Filter

Advanced electrical noise filter boosts performance



Network Stability

Ultra-stable Powerline networking is preferred by internet service providers



Multiple Adapters

Two adapters are needed to start a network—use up to 8 adapters to network an entire home



No CD Installation

Simply plug in the adapters—TRENDnet adapters auto-connect out of the box



Cross Compatible

Backward compatible with all Powerline 600, 500, and 200 adapters



Pre-Encrypted

For your convenience the adapter arrives pre-encrypted



Sync Button

Press the Sync button to change existing encryption keys



Energy Savings

Power Save mode reduces electrical consumption by up to 80%

Specifications

Standards

- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3x
- IEEE 1901

Device Interfaces

- Ethernet port
- Sync / reset button
- Status LEDs
- Power plug
 - A: North America Type B (NEMA 5–15)
 - EU: Euro Type C (CEE 7/16)
 - UK: United Kingdom Type G (BS 1363)

Frequency Band

- 2 – 68 MHz

Data PHY Rate

- 500 Mbps

Networking Distance

- Up to 300 m (980 ft.) linear distance over electrical power lines

Security

- 128-Bit AES (Advanced Encryption Standard)

Optional Utility: OS Compatibility

- Windows® 10, 8.1, 8, 7, Vista, XP

Nodes

- Up to 8 (max.)

Overlapping Powerline Networks

- Up to 4 (per electrical system)

Outlet Current

- 110V AC, 20A (max.)
- 220V AC, 16A (max.)

Power

- Input: 100 – 240 V AC, 50/60 Hz
- Consumption: Active mode: 2.7 Watts (max.); Standby mode: 0.34 Watts (max.)

Operating Temperature

- 0 – 40 °C (32 – 104 °F)

Operating Humidity

- Max. 90 % non-condensing

Certifications

- CE
- FCC

Dimensions

- 112 x 68 x 40 mm (4.4 x 2.7 x 1.1 in.)

Weight

- A: 104 g (3.7 oz.)
- EU: 190 g (6.7 oz.)
- UK: 190 g (6.7 oz.)

Warranty

- 3 year limited

Package Contents

- TPL-421E
- Multi-Language 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.

** 1.2 Gbps is the maximum theoretical Powerline data rate when connected to another Powerline 1200 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 600 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.

