

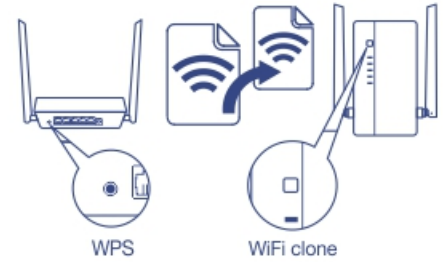
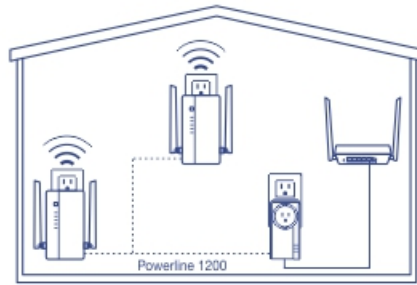
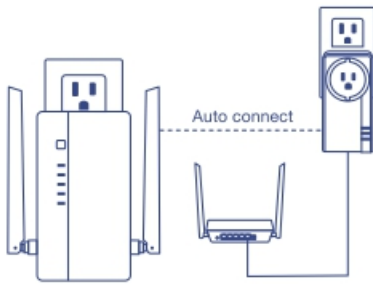


WiFi Everywhere™ Powerline 1200 AV2 Wireless Kit

TPL-430APK (v1.0R)

- Powerline 1200 networking over existing electrical lines
- Powerline kit includes TPL-421E and TPL-430AP
- TPL-430AP features a dual-band wireless AC1200 access point with three gigabit ports
- Enhanced Powerline performance and range from MIMO with Beamforming technology
- Easy installation – TRENDnet adapters auto-connect out of the box
- Pre-encrypted for your convenience
- Powerline range of up to 300m (984 ft.) over existing electrical lines
- WiFi Clone button copies your existing wireless network settings to the TPL-430AP for faster network integration

TRENDnet's WiFi Everywhere™ Powerline 1200 AV2 Wireless Kit, model TPL-430APK, uses an electrical outlet to create or expand a wireless network. Easily install the included TRENDnet Powerline adapters to create a high-speed powerline network. Connect the TPL-421E to the router and plug the TPL-430AP into a power outlet in another room where WiFi connectivity is needed. The WiFi Clone button conveniently copies your existing wireless network settings to the TPL-430AP for faster network integration.



Easy Installation

Simply plug in TRENDnet Powerline adapters and they will auto-connect to each other right out of the box.

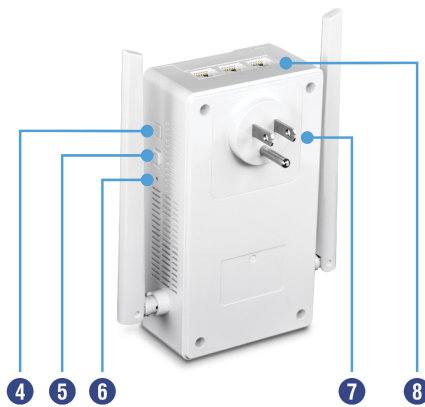
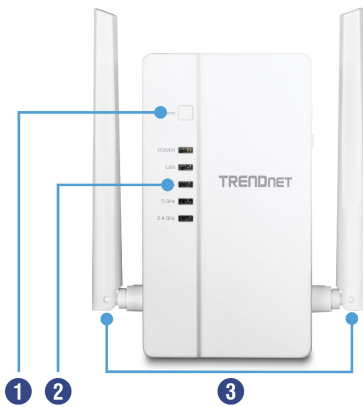
WiFi Everywhere™

By combining wireless and Powerline technology you can enjoy wireless connectivity from any power outlet in your household.

WiFi Clone

Use your router's WPS button and the TPL-430AP's WiFi Clone button to conveniently copy your existing wireless network name and password for quick network integration.

Networking Solution



- 1 WiFi Clone button
- 2 LED indicators
- 3 High gain antennas
- 4 Sync button
- 5 Power button
- 6 Reset button
- 7 Power Plug
- 8 Gigabit ports
- 9 TPL-421E

Powerline



Sync Button

Press the Sync button to change existing Powerline encryption keys



Powerline 1200

Powerline 1200 networking over existing electrical lines using all three electrical wires: the live, neutral, and ground wires to achieve faster throughput speeds



Gigabit Ports

Convenient gigabit ports to hardwire computers, smart TVs, or other network enabled devices



Compatibility

Backward compatible with Powerline 600, 500, and 200 adapters



MIMO with Beamforming Technology

Enhanced performance and range



Multiple Adapters

Use up to 8 adapters on a single Powerline network



Easy Installation

TRENDnet adapters auto-connect out of the box

Wireless



Concurrent Dual Band

AC1200: concurrent 867 Mbps WiFi AC + 300 Mbps WiFi N bands



Wireless Coverage

Expand your wireless coverage with MIMO antenna technology



Pre-Encrypted

For your convenience, the wireless is pre-encrypted with a unique password



WiFi Clone

Use your router's WPS button and the TPL-430AP's WiFi Clone button to conveniently copy your existing wireless network name and password for quick network integration.

Specifications

TPL-430AP

Standards

- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3x
- IEEE 802.3ab
- IEEE 802.11a
- IEEE 802.11b
- IEEE 802.11g
- IEEE 802.11n (up to 300Mbps)
- IEEE 802.11ac (up to 866Mbps)
- IEEE 1901

Device Interface

- 3 x Gigabit LAN ports
- WiFi Clone button
- Reset button
- Sync button
- Power switch
- LED indicators
- Power plug
 - A: North America Type B (NEMA 5–15)
 - EU: European Type E/F Hybrid (CEE 7/7)
 - UK : United Kingdom Type G (BS 1363)

Frequency Band

- 2 - 67MHz

Modulation/Protocol

- OFDM Symbol Modulation on link synchronization, 4096/1024/256/64/8 - QAM, QPSK, BPSK, ROBO Carrier
- CSMA/CA

Networking Distance

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

Encryption

- Wireless: WPA2-PSK
- Powerline: 128-bit AES (Advanced Encryption Standard)

Powerline Nodes

- Up to 8 (max.)

Overlapping Powerline Networks

- Up to 4 (per electrical system)

Special Features

- Auto-connects to other TRENDnet Powerline adapters
- Additional Ethernet ports for wired connectivity
- Automatically clones the SSID and password of your WiFi network

- IPv6 support
- QoS Management
- IGMP / MLDv2 Streams

Antenna Gain

- 2.4GHz: 2 x 3.31dBi
- 5GHz: 2 x 4.51dBi

Wireless Output Power / Receiving Sensitivity

- 802.11a: 16 dBm (typical) / -65 dBm (typical) @ 54Mbps
- 802.11b: 20dBm (typical) / -88dBm (typical) @ 11Mbps
- 802.11g: 15dBm (typical) / -76dBm (typical) @ 54Mbps
- 802.11n (2.4 GHz): 13dBm (typical) / -73dBm (typical) @ 300Mbps
- 802.11n (5 GHz): 16dBm (typical) / -70dBm (typical) @ 300Mbps
- 802.11ac (5GHz): 15dBm (typical) / -60dBm (typical) @ 866Mbps

Power

- Input: 100 - 240V AC, 50 - 60Hz, 0.2A
- Active mode consumption: 12W (max.)

Operating Temperature

- 0 - 40°C (32 - 104°F)

Operating Humidity

- Max. 90% non-condensing

Certifications

- CE
- FCC
- IC
- UL

Dimensions

- 255 x 130 x 75mm (10.04 x 5.11 x 2.95in.)

Weight

- A: 332g (11.7oz.)
- EU: 342g (12oz.)
- UK: 332g (11.7oz.)

TPL-421E

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 - 68MHz

Data PHY Rate

- Up to 1200Mbps

Networking Distance

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

Security

- 128-Bit AES (Advanced Encryption Standard)

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

Operating Temperature

- 0 - 40 °C (32 - 104 °F)

Operating Humidity

- Max. 90 % non-condensing

Certifications

- CE
- FCC
- UL

Dimensions

- A: 61 x 123 x 65mm (2.4 x 4.8 x 2.6in.)
- EU: 61 x 123 x 75mm (2.4 x 4.8 x 3.0in.)
- UK: 61 x 123 x 68mm (2.4 x 4.8 x 2.7in.)

Weight

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

Warranty:

- 3 year

Package Contents

- TPL-430AP
- TPL-421E
- Quick Installation Guide
- 2 x Network cable (1.5m / 5ft.)

* Maximum wireless signal rates are referenced from IEEE 802.11 theoretical specifications. Actual data throughput and coverage will vary depending on interference, network traffic, building materials and other conditions.

** 1200 Mbps is the maximum physical Powerline data rate. Data throughput may vary by circuit wire condition. Maximum of 8 adapters (nodes) recommended for streaming video across your network.

*** Powerline networking is limited to the same electrical system. Power strips, GFCI outlets, and AFCI circuit breakers may degrade Powerline signals.

