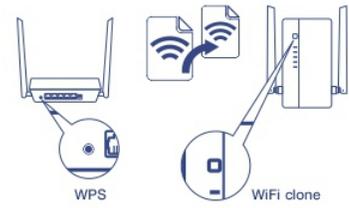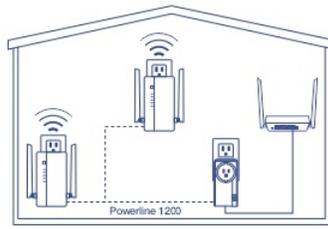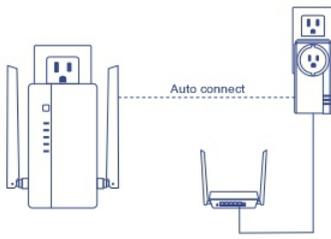# WiFi Everywhere™ Powerline 1200 AV2 Wireless Kit

TPL-430APK (v2.0R)

- Powerline 1200 networking over existing electrical lines
- Powerline kit includes TPL-423E 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 your existing electrical outlets to create or expand a wireless network. Easily install the included TRENDnet Powerline adapters to create a high-speed powerline network. Connect the TPL-423E Powerline adapter to the router and plug the TPL-430AP WiFi Powerline adapter 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 WiFi Powerline adapter for faster network integration.

Easy Installation
Simply plug in the TRENDnet Powerline adapter and WiFi Powerline adapter, and they will auto-connect to each other right out of the box.
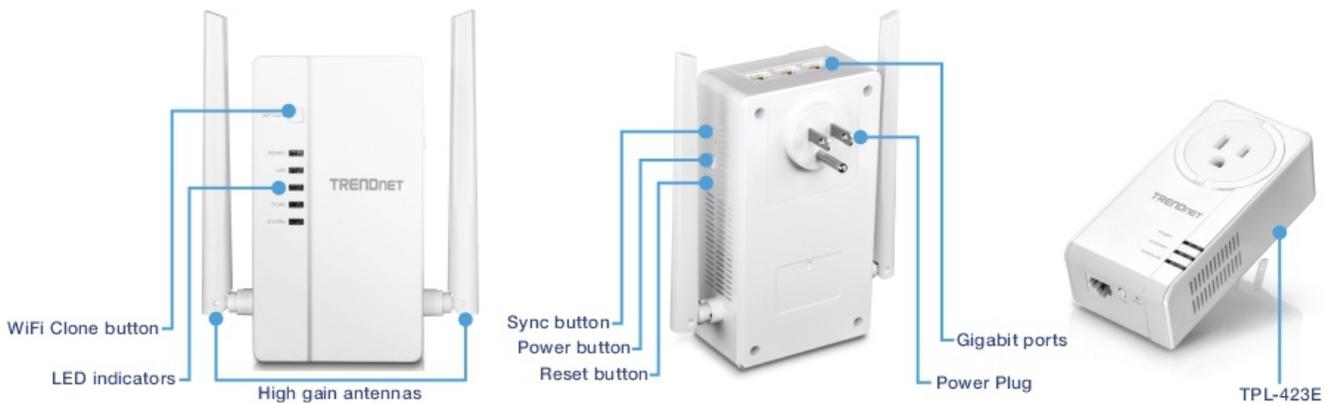

WiFi Everywhere™
By combining wireless and Powerline technologies, you can enjoy wireless connectivity from any power outlet in your household.

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

TEW-827DRU

TPL-423E

TPL-430AP

WiFi Clone button

LED indicators

High gain antennas

Sync button
Power button
Reset button

Gigabit ports

Power Plug

TPL-423E

FEATURES

Powerline

Sync Button
Press the Sync button to change existing Powerline encryption keys

MIMO with Beamforming Technology
Enhanced performance and range

Multiple Adapters
Use up to 8 Powerline adapters on a single Powerline network

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

Compatibility
Powerline adapters are backward compatible with Powerline 600, 500, and 200 adapters

Easy Installation
TRENDnet Powerline adapters and WiFi Powerline adapters auto-connect out of the box

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

Wireless

Concurrent Dual-Band
AC1200: concurrent 867Mbps WiFi AC + 300Mbps WiFi N bands

Wireless Coverage
Expand your wireless coverage with MIMO antenna technology

Pre-Encrypted
For your convenience, the wireless on the WiFi Powerline adapter 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 867Mbps)
- IEEE 1901

Device Interfaces
- 3 x Gigabit LAN ports
- WiFi Clone button
- Reset button
- Sync button
- Power switch
- LED indicators
- Power plug
- Type B (NEMA 5–15)

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 (984 ft.) 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: 16dBm (typical) / -65dBm (typical) @ 54Mbps
- 802.11b: 20dBm (typical) / -88dBm (typical) @ 11Mbps
- 802.11g: 15dBm (typical) / -76dBm (typical) @ 54Mbps
- 802.11n (2.4GHz): 13dBm (typical) / -73dBm (typical) @ 300Mbps
- 802.11n (5GHz): 16dBm (typical) / -70dBm (typical) @ 300Mbps
- 802.11ac: 15dBm (typical) / -60dBm (typical) @ 867Mbps

Power
- Input: 100 – 240V AC, 50/60Hz, 0.2A
- Max. consumption 12W

Operating Temperature
- 0° – 40° C (32° – 104° F)

Operating Humidity
- Max. 90% non-condensing

Certifications
- FCC
- IC

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

Weight
- 332g (11.7 oz.)

Warranty
- 3 year

TPL-423E

Standards
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3x
- IEEE 802.3ab
- IEEE 1901

Device Interfaces
- 1 x Gigabit LAN ports
- Sync button
- Reset button
- LED indicators
- Power plug
- Type B (NEMA 5–15) (10A max. @ 120V AC)

Frequency Band
- 2 – 67.5MHz

Data PHY Rate
- Up to 1200Mbps

Networking Distance
- Powerline: Up to 300m (984 ft.) linear distance over electrical power lines***

Encryption
- Powerline: 128-bit AES (Advanced Encryption Standard)

Powerline Nodes
- Up to 8 (max.)

Overlapping Powerline Networks
- Up to 4 (per electrical system)

Special Features
- Built-in power socket
- Auto-connects to other TRENDnet Powerline adapters
- IPv6 support
- IGMP / MLDv2 Streams

Power
- Input: 100 – 240V AC, 50/60Hz, 0.2A
- Max. consumption: Active mode: 4W; Standby mode: 0.5W

Operating Temperature
- 0° – 50° C (32° – 122° F)

Operating Humidity
- Max. 90% non-condensing

Certifications
- FCC
- IC

Dimensions
- 120 x 60 x 65mm (4.73 x 2.4 x 2.6 in.)

Weight
- 176g (6.2 oz.)

Warranty
- 3 year

Package Contents
- TPL-430AP
- TPL-423E
- Quick Installation Guide
- 2 x Network cable (1.5m / 5 ft.)

All references to speed are for comparison purposes only. Product specifications, size, and shape are subject to change without notice, and actual product appearance may differ from that depicted herein.

Updated: 1/3/2020