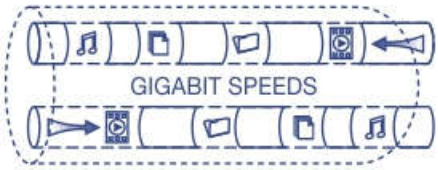


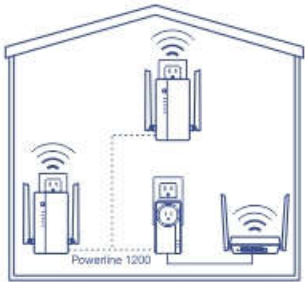
WiFi Everywhere™ Powerline 1200 AV2 Access Point

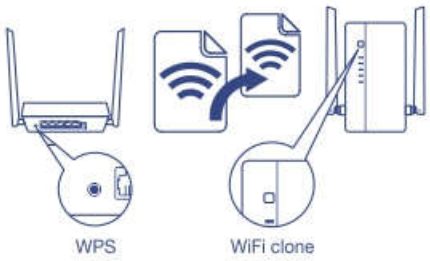
TPL-430AP (v1.0R)

- Powerline 1200 networking over existing electrical lines
- Built-in dual-band wireless AC1200 access point
- 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
- Three gigabit ports for high performance wired networking
- Powerline range of up to 300 m (984 ft.) over existing electrical lines
- Two Powerline adapters are required to start a network
- WiFi Clone button copies your existing wireless network settings to the TPL-430AP for faster network integration

TRENDnet's WiFi Everywhere™ Powerline 1200 AV2 Access Point, model TPL-430AP, uses an electrical outlet to create or expand a wireless network. Two Powerline adapters are needed to start a network. Connect one Powerline adapter to the router, and plug the TPL-430AP into a power outlet in another room where WiFi connectivity is needed. The WiFi Clone feature conveniently copies your existing wireless network settings to the TPL-430AP for faster network integration.







Gigabit Ports

Three gigabit ports provide high-speed network connections to devices, and a 6 Gbps switching capacity allows data traffic to flow smoothly, reducing traffic bottlenecks.

WiFi Everywhere™

Connect all of your 2.4 GHz & 5 GHz devices to a dual band WiFi AC1200 network.

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

Powerline



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



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



Gigabit Ports
Three 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



Pre-Encrypted
The adapter is pre-encrypted for your convenience

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

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.)

Warranty:
- 3 year

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

* 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.

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