



## Powerline 500 Wireless Kit TPL-410APK (v1.0R)

- Create a wireless network in an area with little to no wireless coverage
- Combination Powerline and Wireless N
- Connect a smart TV, gaming console, or media player to the two Ethernet ports
- No CD installation: adapters auto-connect out of the box
- Includes TPL-406E + TPL-410AP adapters

TRENDnet's Powerline 500 Wireless Kit, model TPL-410APK, uses electrical outlets to create a hybrid Powerline-Wireless network. The included TRENDnet Powerline adapters (TPL-406E + TPL-410AP) auto-connect out of the box. Network the TPL-406E to a router and plug the TPL-410AP into an outlet on the electrical system to extend a high performance wireless network. Hard-wire a smart TV, gaming console, or media player to the two Ethernet ports on the TPL-410AP.

## Powerline



### No CD Installation

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



### Sync Button

Press the Sync button to change existing Powerline encryption keys



### Pre-Encrypted

For your security the Powerline signal is pre-encrypted



### Powerline 500

High speed Powerline networking over existing electrical lines



### Ethernet Ports

The TPL-410AP offers two convenient Ethernet ports to hardwire computers, smart TVs, and other network enabled devices



### Cross Compatible

TRENDnet Powerline 500 and 200 adapters work together



### Whole Home Coverage

Connects over electrical lines, for houses up to 5000 square feet (300 m/984 ft. linear distance over electrical lines)



### Energy Savings

Power Save mode reduces electrical consumption

## Wireless



### Quick Setup

Get up and running in minutes with the intuitive guided setup



### N300 Wireless

Proven 300 Mbps Wireless N



### Wireless Coverage

Expanded wireless coverage with MIMO antenna technology



### Pre-Encrypted

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



### One Touch Connection

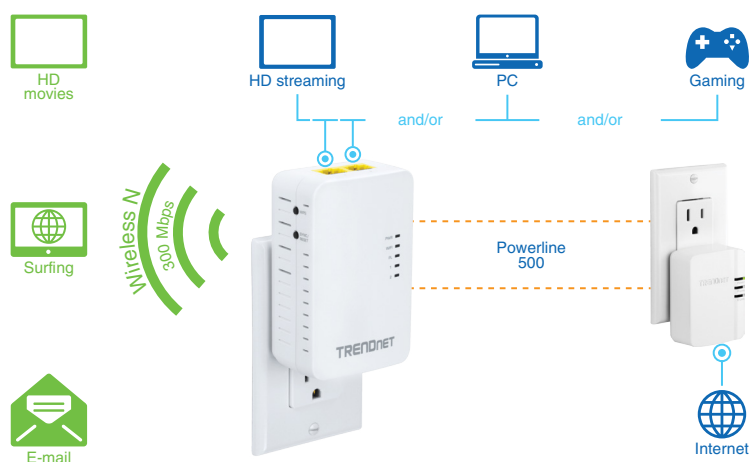
Securely connect wireless devices at the touch of the Wi-Fi Protected Setup (WPS) button



### Compatibility

Compatible with legacy 2.4 GHz Wireless devices

## Networking Solution



## Specifications

### TPL-410AP

#### Standards

- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3x
- IEEE 802.3az
- IEEE 802.11b
- IEEE 802.11g
- IEEE 802.11n (up to 300 Mbps)
- IEEE 1901/HomePlug® AV

#### Device Interface

- 2 x 10/100 Mbps ports
- Sync/reset button
- WPS button
- Power switch
- LED indicators
- Power Plug (A: North America Type B (NEMA 5-15); EU: European Type C (CEE 7/16); UK : United Kingdom Type G (BS 1363))

#### Frequency Band

- 2 - 68 MHz

#### Networking Distance

- Powerline: 5,000 sq. ft. home or 300 m (980 ft.) linear distance over electrical power lines\*\*

#### Security

- Wireless encryption: up to WPA2
- Powerline encryption: 128-bit AES (Advanced Encryption Standard)

#### Utility OS Compatibility (optional)

- Windows® 8.1, 8, 7, Vista, XP

#### Special Features

- Auto-connects to other TRENDnet Powerline adapters
- Additional Ethernet port for wired connectivity

#### Antenna Gain

- 2.4 GHz: 2 x 3 dBi

#### Wireless Output Power/Receiving

##### Sensitivity

- 802.11b: 17 dBm (typical)/-76 dBm (typical) @ 11 Mbps
- 802.11g: 14 dBm (typical)/-65 dBm (typical) @ 54 Mbps
- 802.11n: 14 dBm (typical)/-61 dBm (typical) @ 300 Mbps

#### Power

- Input: 100 - 240 V AC, 50 - 60 Hz, 0.2 A
- Consumption: 8 Watts Max.

#### Operating Temperature

- 0 - 40°C (32 - 104°F)

#### Operating Humidity

- Max. 90% non-condensing

#### Certifications

- CE
- FCC

#### Dimensions

- A: 65 x 100 x 55 mm (2.56 x 3.94 x 1.97 in.)
- EU: 65 x 100 x 77 mm (2.56 x 3.94 x 3.03 in.)
- UK: 65 x 100 x 70 mm (2.56 x 3.94 x 2.76 in.)

#### Weight

- A: 153 g (5.4 oz.)
- EU: 164 g (5.8 oz.)
- UK: 168 g (5.9 oz.)

#### Warranty

- 3 year limited

### TPL-406E

#### Standards

- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3x
- IEEE 1901/HomePlug® AV

#### Device Interfaces

- 1 x 10/100 Mbps port
- Sync/reset button
- LED indicators
- Power Plug (A: North America Type B (NEMA 5-15); EU: European Type C (CEE 7/16); UK : United Kingdom Type G (BS 1363))

#### Frequency Band

- 2 - 68 MHz

#### Networking Distance

- 5,000 sq. ft. home or 300 m (980 ft.) linear distance over electrical power lines\*\*

#### Security

- 128-Bit AES (Advanced Encryption Standard)

#### Utility OS Compatibility

- Windows® 8.1, 8, 7, Vista, XP

#### Special Features

- Auto-connects to other TRENDnet Powerline adapters

#### Power

- Input: 100 - 240 V AC, 50 /60 Hz, 0.1 A
- Consumption: Active mode: 3 Watts (max.); Standby mode: 0.5 Watts (max.)

#### Operating Temperature

- 0 - 40°C (32 - 104°F)

#### Operating Humidity

- Max. 95 % non-condensing

#### Certifications

- CE
- FCC

#### Dimensions

- A: 70 x 50 x 43 mm (2.76 x 1.97 x 1.69 in.)
- EU: 70 x 50 x 63 mm (2.76 x 1.97 x 2.48 in.)
- UK: 70 x 50 x 58 mm (2.76 x 1.97 x 2.28 in.)

#### Weight

- A: 51 g (1.8 oz.)
- EU: 56.7 g (2.0 oz.)
- UK: 68 g (2.4 oz.)

#### Warranty

- 3 year limited

#### Package Contents

- TPL-410AP
- TPL-406E
- Multi-Language Quick Installation Guide
- CD-ROM (Utility & User's Guide)
- 2 x network cables (1.8 m/6 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

\*\* 500 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.

