tp-link

Wi-Fi 6

EasyMesh Compatible

AX1500 Wi-Fi Range Extender

Works With Any Wi-Fi Router‡

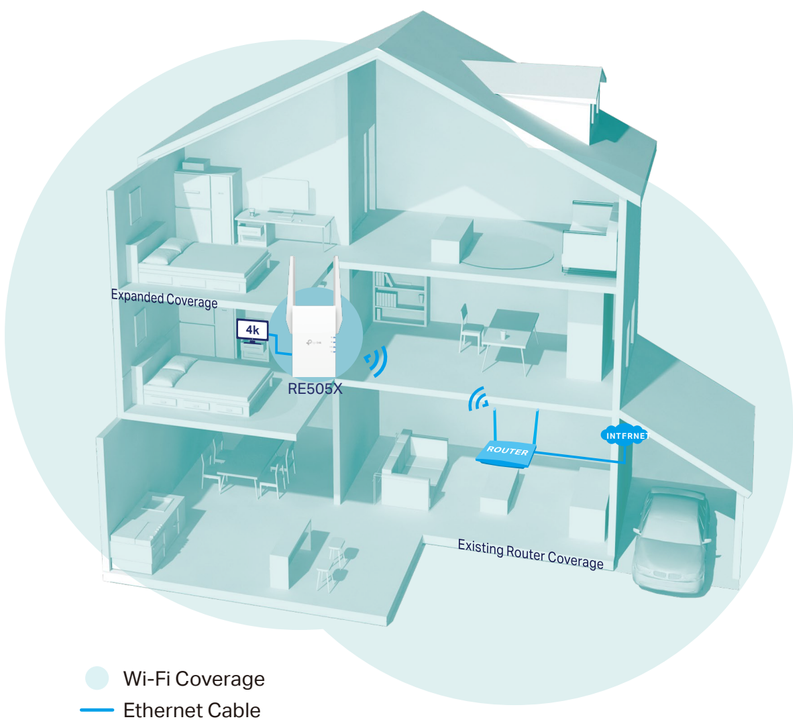
RE505X

- Wi-Fi 6 Dead-Zone Killer
- Connect More Devices△
- Uninterrupted Streaming§
- Faster Wi-Fi 6 Speed
- Easy Setup Within Minutes

Highlights

Extend AX1500 Wi-Fi to Your Whole Home

Works with any Wi-Fi router to eliminate Wi-Fi dead zones, and blanket your home with stable, super-fast, seamless Wi-Fi via Easymesh.



Faster Wi-Fi 6 Speed

Turbocharge your devices with wireless speeds of up to 1.5 Gbps.

Larger Capacity△

Wi-Fi 6 builds a more efficient network that increases the average throughput by 4 times and serves more devices.

Ultra-Low Latency

Take advantage of ultra-low latency to enjoy smoother online experience.

Save Clients' Battery Power*

Target Wake Time schedules the connection time of battery-powered devices to reduce their power consumption.

Adaptive Path Selection

Keep your network running at top-speed by automatically choosing the fastest connection path to the router.

Access Point Mode

Create a new Wi-Fi access point to enhance your wired network with Wi-Fi capability.

Easy Setup Within Minutes

Easy setup and management via WPS button/Tether app/Web UI.

Highlights

EasyMesh-Compatible

Connect with an EasyMesh-compatible router to create a mesh network for seamless whole-home coverage, or any Wi-Fi router to boost your Wi-Fi range. ‡**

Wi-Fi Dead-Zone Killer

Eliminate weak signal areas with Wi-Fi coverage for the whole house.

Smart Roaming

Enjoy uninterrupted streaming, surfing, and more—even when moving around your home.

One Wi-Fi Name

Stay connected to the same network name in every room.

Easy Setup and Unified Management

Push the WPS button to set up a Mesh network you can manage from the Tether app or web UI.

Check the full list of TP-Link's EasyMesh-compatible extenders and routers at tp-link.com/easymesh/product-list/

*More compatible devices coming soon

Wi-Fi 6 Range Extender

Secure One-touch Connection(WPS)

Instantly connect the extender to a router without inference configuration.

Smart Signal Indicator

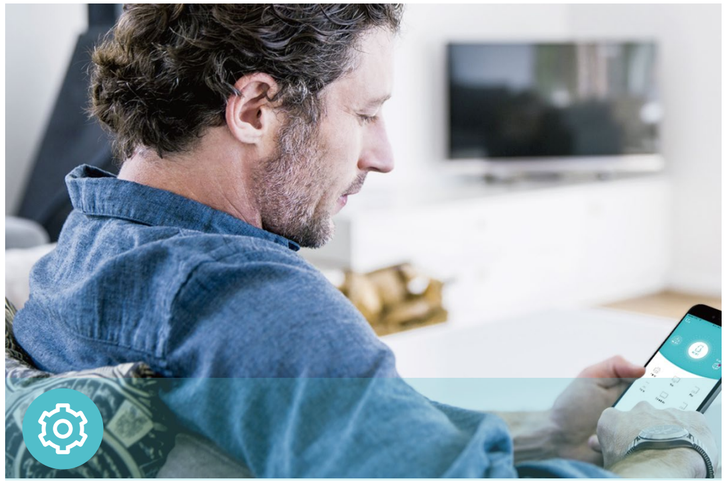
See signal to find the best spot to extend Wi-Fi.

- Strong signal
- Weak signal

Gigabit Ethernet Port

Plug in to give wired device network access, particularly ideal for high bandwidth consuming devices.

Features



Ease of Use

- Intuitive Web UI– Ensures quick and simple installation without hassle
- Fast Encryption – One-touch wireless security encryption with the WPS button
- Hassle-free Management with Tether App – The network management is easy with the TP-Link Tether App, available on any Android or iOS device
- Online Upgrade – Keeps you informed of the latest firmware and allows online updating on the web UI

Speed

- Ultimate Wireless Speed – Combined wireless speeds of up to 300 Mbps (over 2.4 GHz) and 1200 Mbps (over 5 GHz)†
- Support Wi-Fi 6 – Turbocharge your devices with wireless speeds of up to 1.5 Gbps
- Adaptive Path Selection – Keep your network running at top-speed by automatically choosing the fastest connection path to the router

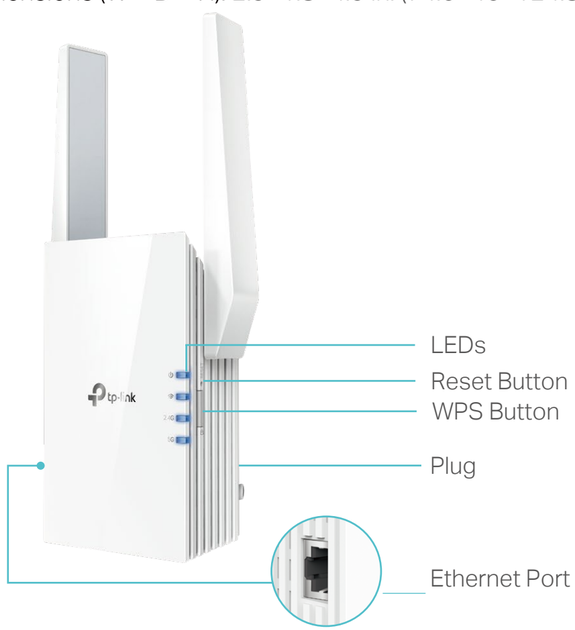
Reliability

- Simultaneous Dual Band – Separate Wi-Fi bands enable more devices to connect to your network without a drop in performance
- Reliable Connection – Internal antennas for optimal Wi-Fi coverage and reliable wireless connections
- Ultra-Low Latency – Take advantage of ultra-low latency to enjoy smoother online experience

Specifications

Hardware

- Button: WPS Button, Reset Button
- Port: 1 Gigabit Ethernet Port
- Antenna: 2 External Antennas
- Power Consumption: 11.8W
- Dimensions (W × D × H): 2.9×1.8×4.9 in. (74.0×46×124.8 mm)



Wireless

- Wireless Standards: IEEE 802.11a/n/ac/ax 5 GHz, IEEE 802.11b/g/n 2.4 GHz
- Frequency: 2.4 GHz and 5 GHz
- Signal Rate: 300 Mbps at 2.4 GHz, 1200 Mbps at 5 GHz
- Reception Sensitivity:

  5 GHz:

  11ax HE80MCS0:-86, 11ax HE80MCS11:-56

  11ax HE40MCS0:-88, 11AX HE40MCS11:-59

  11ax HE20MCS0:-92, 11ax HE20MCS11:-61

  11a 6Mbps: -93dBm, 11a 54Mbps: -75dBm

  11ac HT20 MCS0: -92dBm, 11ac HT20 MCS8: -70dBm

  11ac HT40 MCS0: -90dBm, 11ac HT40 MCS9: -66dBm

  11ac HT80 MCS0: -87dBm, 11ac HT80 MCS9: -62dBm

  2.4 GHz:

  11g 54Mbps: -77dBm, 11n HT20 MCS7: -74dBm

  11n HT40 MCS7: -71dBm
- Wireless Function: Access Control, Power Schedule, Wi-Fi Coverage
- Wireless Security: WPA/WPA2-PSK, WPA3 encryptions

Others

- Certification

  RCM, RoHS
- System Requirements

  Microsoft Edge, Firefox, Chrome, Safari, or other JavaScript-enabled browser

  *You are recommended to use the latest version
- Package Contents

  Wi-Fi Range Extender RE505X

  Quick Installation Guide

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†Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and wireless coverage per ft² are not guaranteed and will vary as a result of network conditions, client limitations, and environmental factors, including building materials, obstacles, volume and density of traffic, and client location.
‡The product may not be compatible with routers or gateways with firmware that has been altered, is based on open source programs, or is non-standard or outdated.
§Uninterrupted Streaming is designed for devices that support the 802.11k/v standard.
◁Up to 4x Capacity refers to 4x increase in median throughput under dense environment compared to 11ac wave 2 range extender.
*Saving clients' battery power requires clients to also support the 802.11ax Wi-Fi standard. Actual power reduction may vary as a result of network conditions, client limitations, and environmental factors.
**TP-Link EasyMesh-compatible products can network with other devices that use EasyMesh. Failed connections may be due to firmware conflicts of different vendors. The EasyMesh-compatible function is still being developed on some models and will be supported in subsequent software updates. This product is compatible with standardized EasyMesh technology but has not obtained the Wi-Fi EasyMesh™ certification.
***Unified management is available for TP-Link EasyMesh-compatible devices. This feature is not guaranteed for devices from other vendors.
Actual network speed may be limited by the rate of the product's Ethernet WAN or LAN port, the rate supported by the network cable, Internet service provider factors and other environmental conditions.