tp-link

AX1500 Wi-Fi Range Extender

Works With Any Wi-Fi Router‡

RE505X

Wi-Fi 6
Dead-Zone Killer

Connect
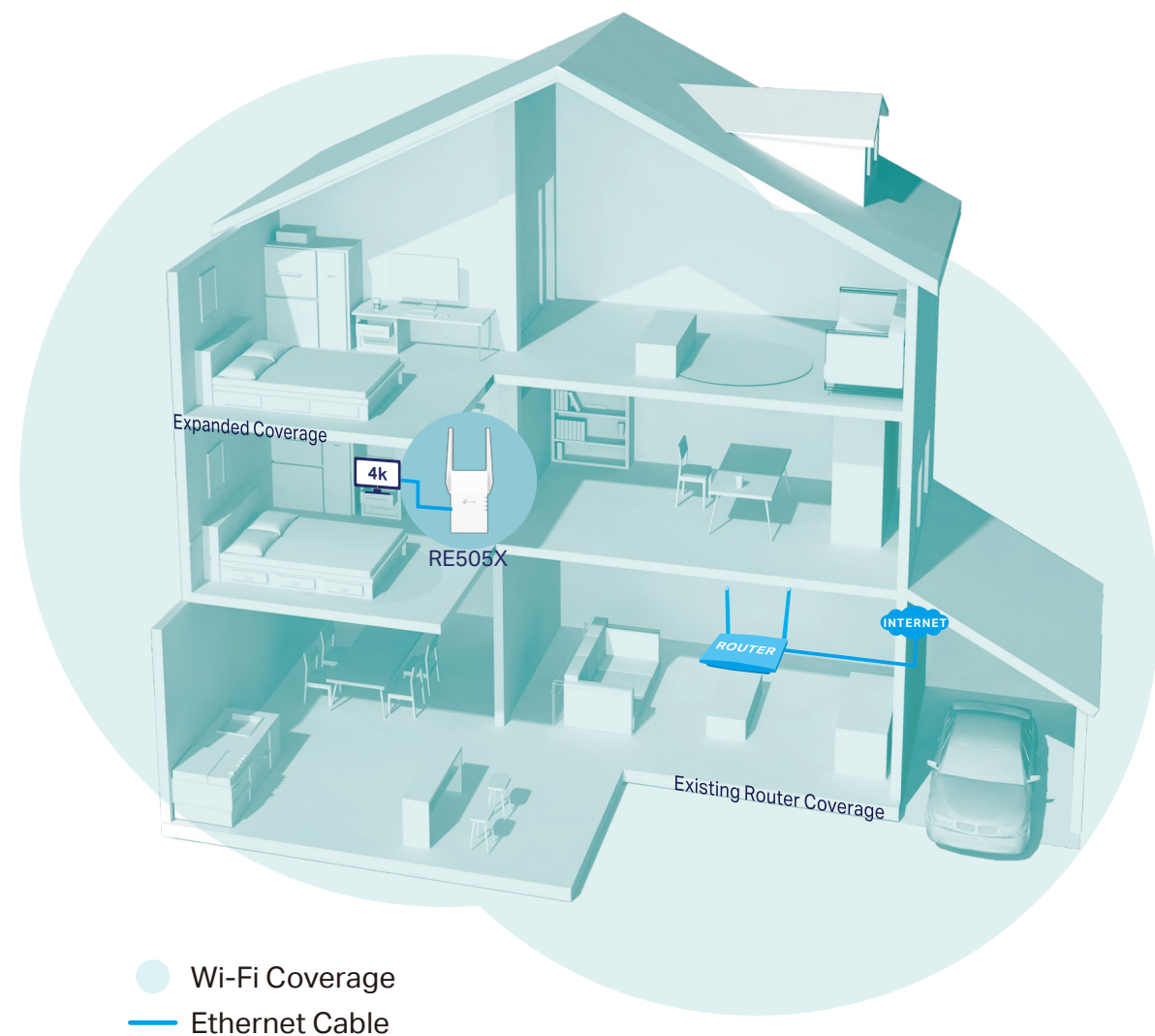More Devices△

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 OneMesh™ .

Expanded Coverage

4k

RE505X

ROUTER

INTERNET

Existing Router Coverage

● Wi-Fi Coverage
— Ethernet Cable

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.

TP-Link   AX1500 Wi-Fi Range Extender   RE505X

Highlights

OneMesh™

RE505X is more than a traditional range extender. It creates a Mesh network by connecting to a OneMesh™ router for seamless whole-home coverage.

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 full list of OneMesh™ extenders and routers at
https://www.tp-link.com/One-Mesh/compatibility

*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.
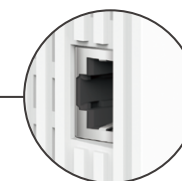
Smart Signal Indicator

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.
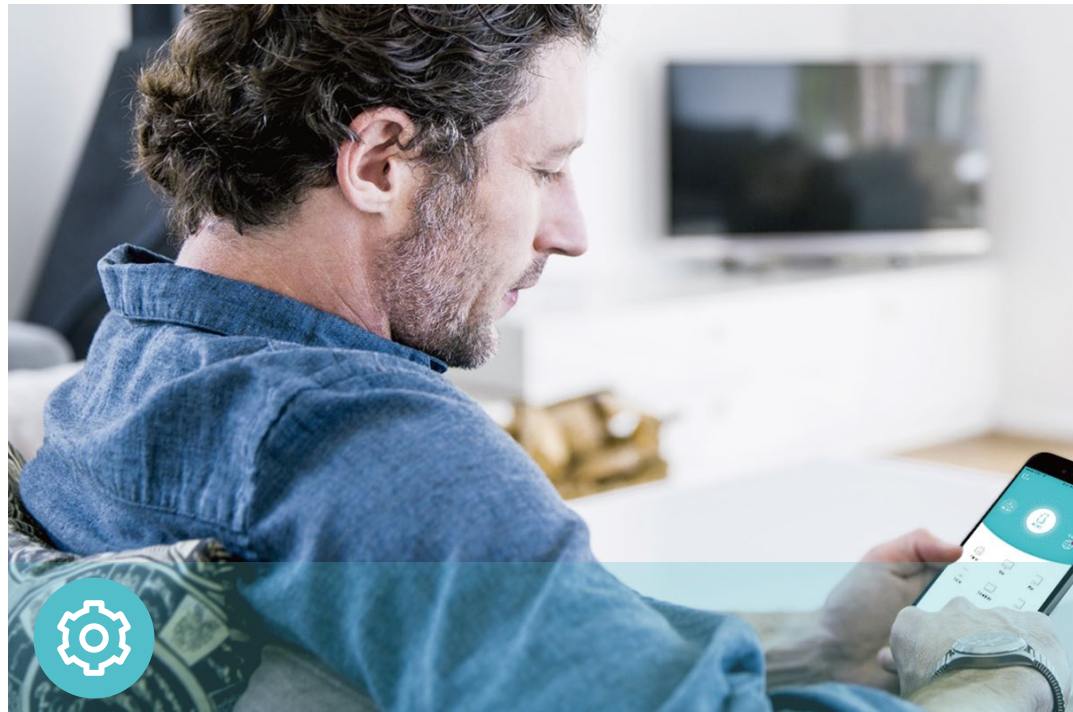
PC   Game Console   Smart TV

4K

Features

Ease of Use

· Intuitive Web UI– Ensures quick and simple installation without hassle

· Fast Encryption – One-touch WPA 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
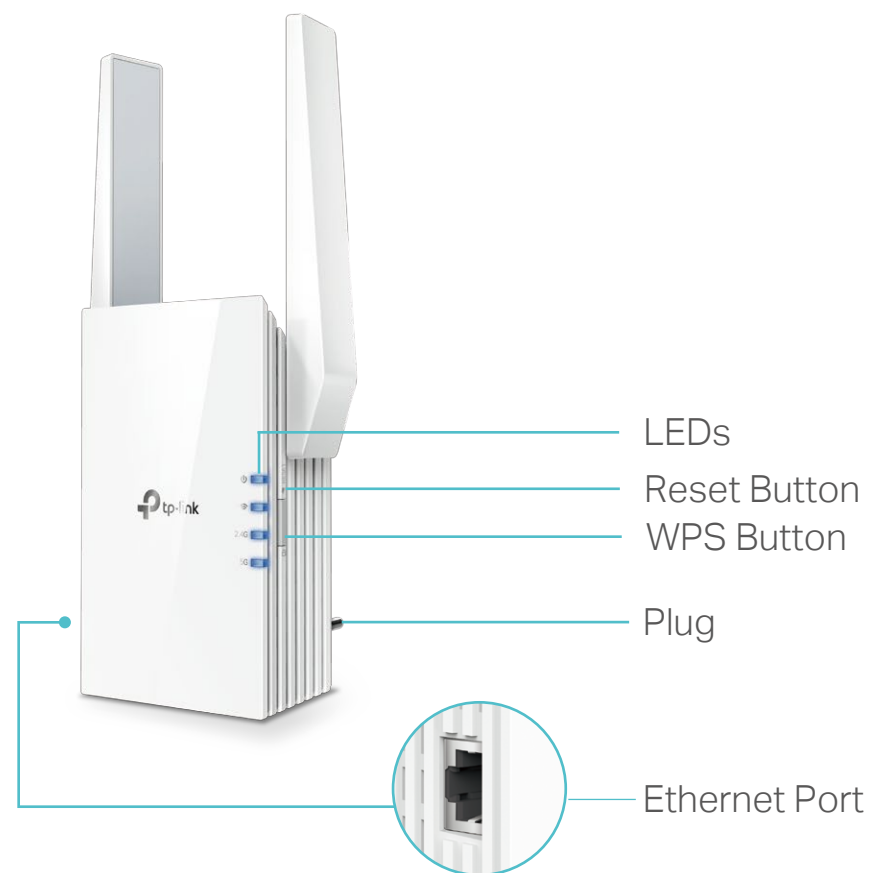
Reliability

· 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: 10W

· Dimensions (W × D × H): 2.9×1.8×4.9 in. (74.0×46×124.8 mm)

LEDs
Reset Button
WPS Button
Plug
Ethernet Port

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

· Transmit Power: 2.4G＜20dBm, 5G＜30dBm

· Reception Sensitivity:

5 GHz:

11ax HE80MCS0:-86, 11ax HE80MCS11:-55

11ax HE40MCS0:-88, 11AX HE40MCS11:-58

11ax HE20MCS0:-92, 11ax HE20MCS11:-60

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: -75dBm

11n HT40 MCS7: -72dBm

· Wireless Function: Enable/Disable Wireless Radio, Wireless Statistics

· Wireless Security: 64/128-bit WEP, WPA/WPA-PSK2 encryptions

Others

· Certification

CE, RoHS

· System Requirements

Microsoft Windows 98SE, NT, 2000, XP, Vista™ or Windows 7, 8, 8.1, 10, MAC OS, NetWare, UNIX or Linux

Internet Explorer 11, Firefox 12.0, Chrome 20.0, Safari 4.0, or other Java-enabled browser

· Package Contents

Wi-Fi Range Extender RE505X

Quick Installation Guide