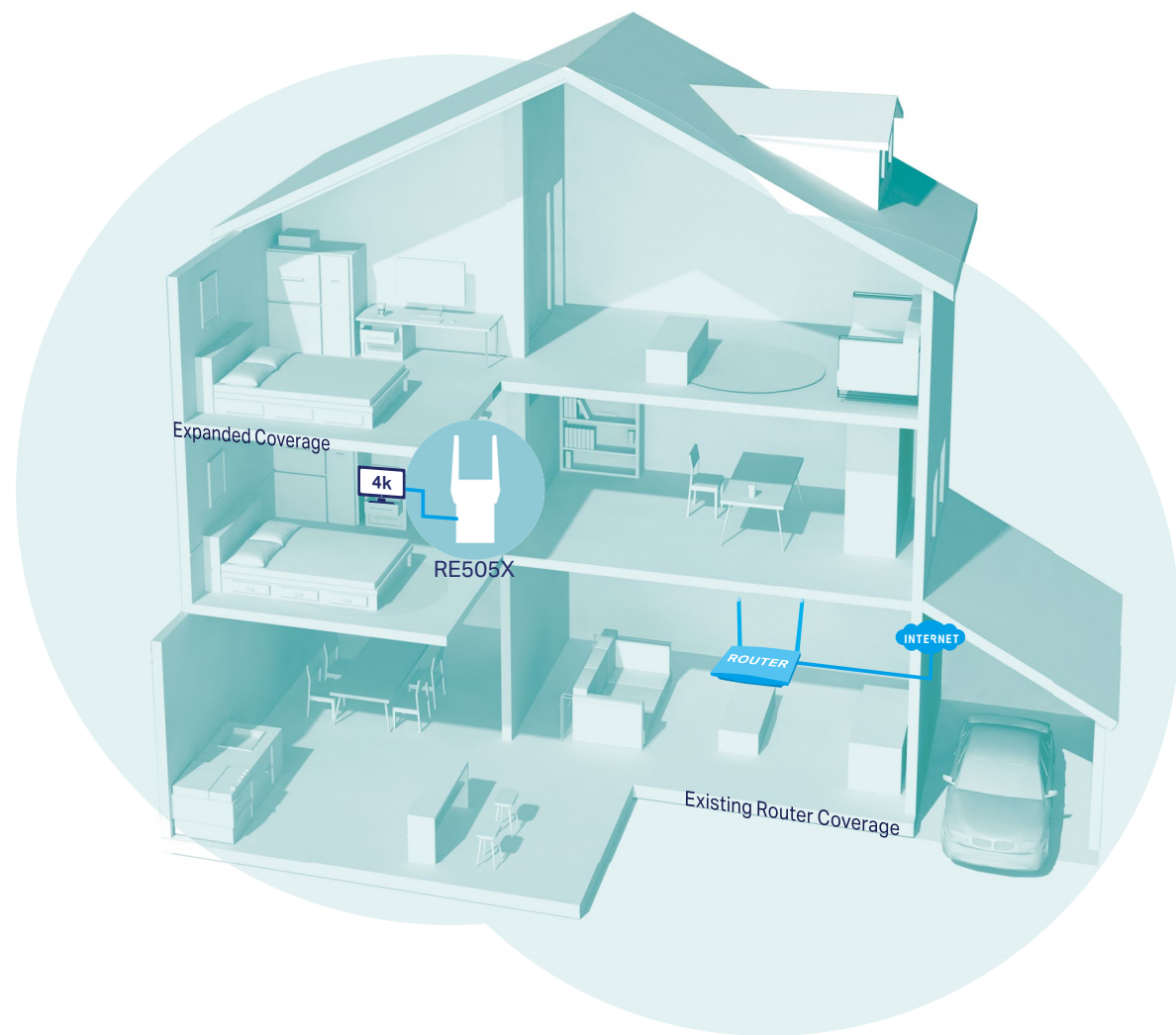# Highlights

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 1.5Gbps.

Larger Capacity△

Wi-Fi 6 builds a more efficient network that increases the average throughput by 4 times and servers 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.
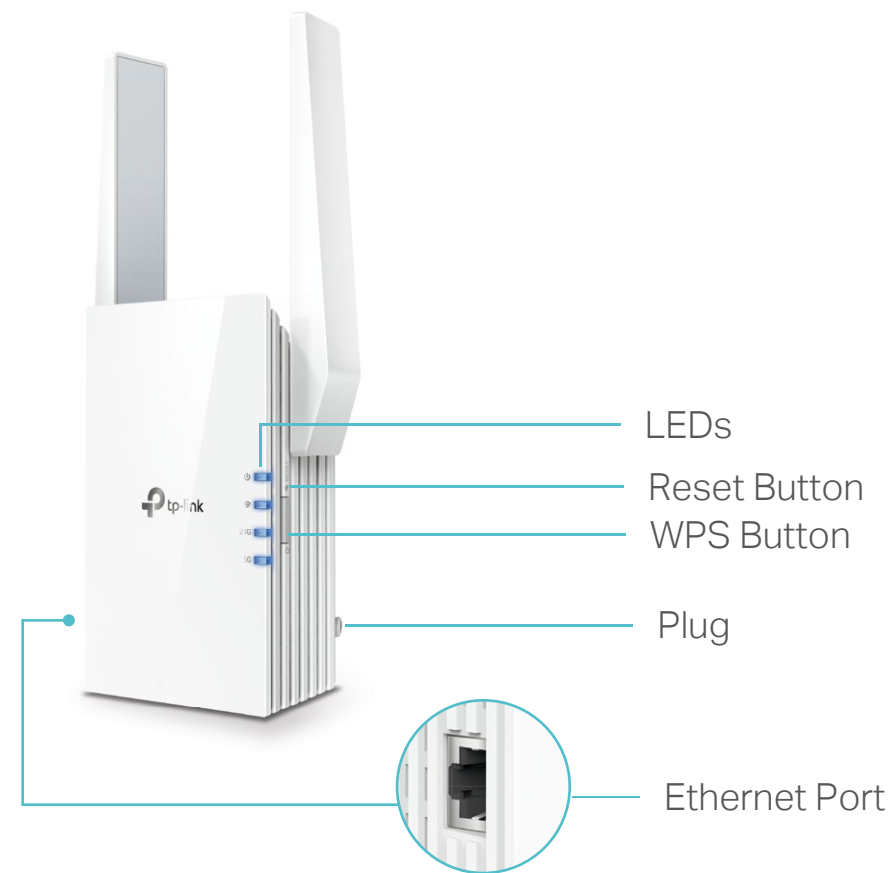
● Strong signal
● Weak signal

Gigabit Ethernet Port

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

PC   Game Console   Smart TV

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 5GHz, IEEE 802.11b/g/n 2.4GHz

· **Frequency:** 2.4GHz and 5GHz

· **Signal Rate:** 300 Mbps at 2.4GHz, 1200 Mbps at 5GHz

· **Transmit Power:** CE: 2.4GHz ≤20dBm, 5GHz ≤30dBm

· **Reception Sensitivity:**

5GHz:

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

2.4GHz:

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/WPA2-PSK encryptions

Others

· Certification

FCC, 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

For more information, please visit

https://www.tp-link.com/home-networking/range-extender/re505x/

or scan the QR code left