

5G AX3000 Dual Band Wi-Fi 6 Router



Superior 5G up to 6.47 Gbps[※]



Dual Band Powerful Wi-Fi 6



EasyMesh-Compatible Seamless Wi-Fi[★]



SIM Card Plug & Play[◇]



Highlights

Superior 5G – A Revolutionary Experience

Take advantage of your advanced 5G network with download speeds up to 6.47 Gbps. Share your 5G network with multiple Wi-Fi devices and enjoy uninterrupted Ultra HD movies, blazingly fast file downloads, and smooth video chats and video conferences. At the same time, NX505 is backward compatible with 4G mode.[※]

5G

Powerful Broadband Connection

6.47 Gbps[※]

4G-LTE

2 Gbps



Higher
Speed



Lower
Latency



Larger
Capacity

Wi-Fi Where You Need It

Enjoy unmatched convenience and versatility. Tested in the field for years to ensure universal compatibility with 6 5G/LTE antennas to deliver a smooth connection. Simply plug in a Nano SIM card and power on this elegant piece of technology to utilize fast and stable Wi-Fi, whether you're at home or working remote.[◇]



AX3000 – Powerful Wi-Fi 6

Up to 3000 Mbps Wi-Fi enables your devices to run at full dual-band speed. Enjoy fluent 4K/8K streaming, immersive AR/VR gaming, and blazing-fast downloads. †



2x2
MIMO



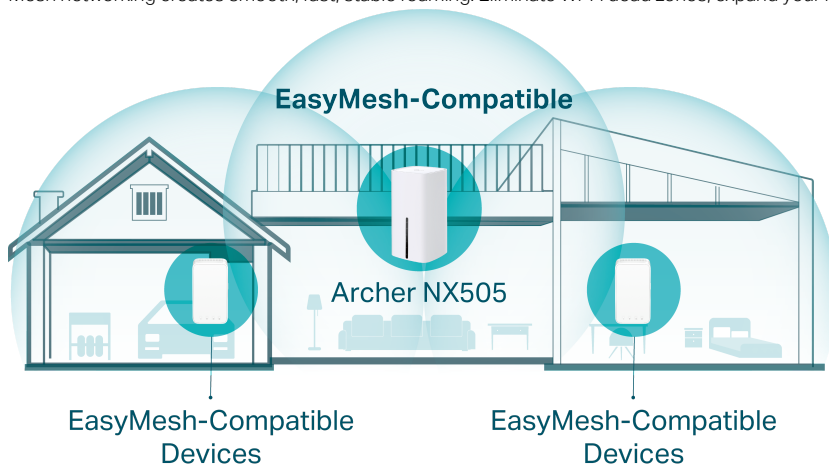
1024-
QAM



Backward
Compatible

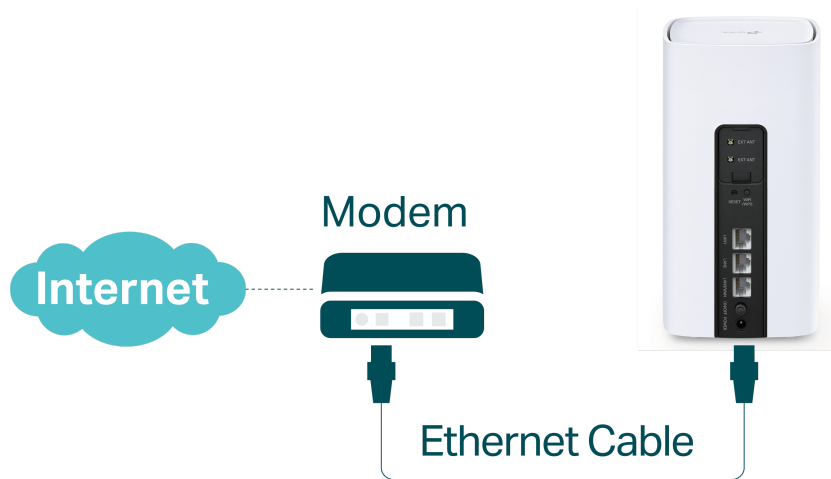
EasyMesh-Compatible Networking★

Mesh networking creates smooth, fast, stable roaming. Eliminate Wi-Fi dead zones, expand your network, and fill your entire home with high-speed Wi-Fi.



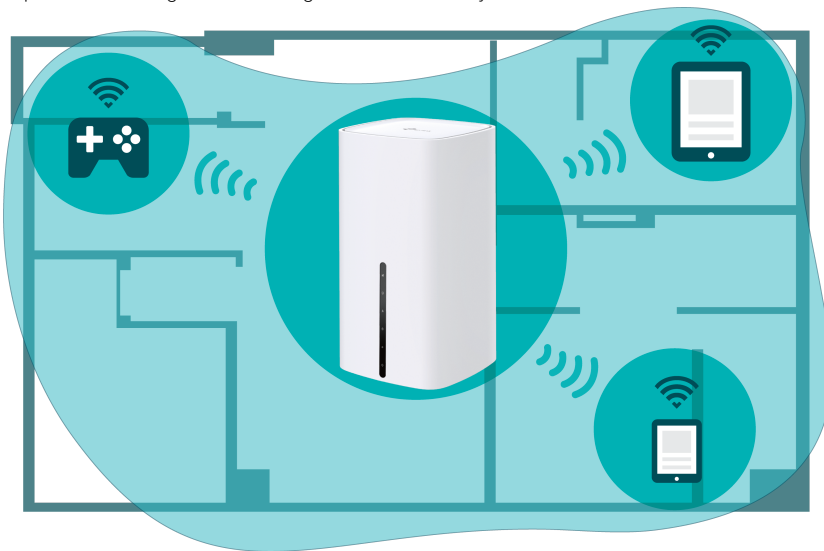
Available WAN Connection

The gigabit WAN/LAN port enables NX505 to work as a traditional wireless router which is compatible with cable, fiber, and DSL modems. And when it's set as a wireless router, its 5G/LTE connection works as a backup to provide a sustained and reliable internet connection for you. §



Maximum Network Coverage

Advanced 5G/LTE antennas make efficient and stable connections to every device. Power Amplifier and Low Noise Amplifier boost sending and receiving capabilities, creating a wide-coverage Wi-Fi network for your home.



Features

	5G Network · 5G – Ideal for cutting-edge 5G network · Backward Compatible – Compatible with 4G network
	Wi-Fi Speed · Superior Wireless Speed – Combined wireless speeds up to 574 Mbps over 2.4 GHz, and 2402 Mbps over 5 GHz · 802.11 ax Standard – Provides a data transfer rate 3 times faster than 802.11ac for each stream
	Wi-Fi Range · Great Coverage – Better coverage with integrated Wi-Fi omnidirectional antennas
	Reliability · Simultaneous Dual Band – Separate Wi-Fi bands enable more devices to connect to your network without a drop in performance · Easy Bandwidth Management – Advanced QoS makes it easier for you to manage the bandwidth of connected devices · Superior Stability – Powerful processor enables you to connect up to 200+ wireless devices with ease
	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 · Wi-Fi On/Off – Conveniently turn on or off wireless radios as required · Hassle-free Management with Tether App – Network management is made easy with the TP-Link Tether App, available on any Android and iOS device · Online Upgrade – Keeps you informed of the latest firmware and allows online upgrade on the web UI
	Security · Guest Network – Keeps your main network secure by creating a separate network for friends and visitors · Access Control – Establishes a whitelist or blacklist to allow or restrict certain devices to access the internet · Parental Controls – Restrict internet access time and contents for your children's devices · Encryptions for Secure Network – WPA, WPA2, and WPA3 encryptions provide active protection against security threat

Specifications

Hardware	
Interface	2×Gigabit LAN Ports 1×Gigabit WAN/LAN Port 1×Nano SIM Card Slot 2×TS-9 Ports for 5G/4G External Antennas 1×Power Slot
Buttons	Wi-Fi/WPS Button, Reset Button, Power Button
Antennas	3×Internal Wi-Fi Antennas, 6×Internal NR/LTE Antennas
External Power Supply	12V/2.5A
Dimensions (W x D x H)	3.9 x 3.9 x 7.5 in (99 x 99x 190 mm)
Wireless	
Network Type	5G: N1/N3/N5/N7/N8/N20/N28/N38/N40/N41/N71/N75/N76/N77/N78 (2100/1800/850/2600/900/800/700/2600/2300/2500/600/1500/1500/3700/3500 MHz) 4G: FDD-LTE: B1/B3/B5/B7/B8/B20/B28/B32/B71 (2100/1800/850/2600/900/800/700/1500/600 MHz) TDD-LTE: B38/B40/B41/B42/B43 (2600/2300/2500/3500/3700 MHz) 3G: DC-HSDPA/HSPA+/HSPA/UMTS: B1/B3/B5/B8 (2100/1800/850/900 MHz)
Wireless Standards	IEEE 802.11a/n/ac/ax 5 GHz, IEEE 802.11b/g/n/ax 2.4 GHz
Frequency	2.4 GHz and 5 GHz
Signal Rate	574 Mbps at 2.4 GHz, 2402 Mbps at 5 GHz
EIRP (CE)	≤20dbm(2.4GHz); ≤23dbm(5G band1/band2); ≤30dbm(5G band3)
Reception Sensitivity	5 GHz: 11ax HE20: -64 dBm 11ax HE40: -61 dBm 11ax HE80: -59 dBm 11ax HE160: -56 dBm 11ac VHT20: -70 dBm 11ac VHT40: -67 dBm 11ac VHT80: -64 dBm 2.4 GHz: 11ax HE20: -62 dBm 11ax HE40: -59 dBm 11n HT20: -73 dBm 11n HT40: -70 dBm
Wireless Function	Enable/Disable Wireless Radio, Wireless Schedule, WMM, Wireless Statistics
Wireless Security	WPA/WPA2, WPA-PSK/WPA2-PSK, WPA3 encryptions
Software	
Operating Modes	3G/4G/5G Router, Wireless Router
WAN Type	Dynamic IP/Static IP/PPPoE/PPTP(Dual Access)/L2TP(Dual Access)
DHCP	Server, DHCP Client List, Address Reservation
Quality of Service	Bandwidth Control
Port Forwarding	ALG, Virtual Server, Port Triggering, UPnP, DMZ
Dynamic DNS	TP-Link, DynDns, NO-IP
VPN Server	PPTP VPN, IPSec VPN, OpenVPN
Firewall Security	DoS, IPv4 SPI Firewall, IPv6 Firewall, IP and MAC Address Binding, Access Control
Protocols	IPv4, IPv6
Management	Access Control, Local Management, Remote Management, reboot schedule
Guest Network	2.4 GHz guest network x 1, 5 GHz guest network x 1
Others	
Certification	CE, RoHS
Requirements	• Edge, Firefox, Chrome, Safari, or other JavaScript-enabled browser *You are recommended to use the latest version • Nano SIM Card
Environment	• Operating Temperature: 0°C~40°C (32°F ~104°F) • Operating Humidity: 10%~90% non-condensing • Storage Humidity: 5%~90% non-condensing
Package Contents	• 5G AX3000 Dual Band Wi-Fi 6 Router Archer NX505

Hardware	
	• RJ45 Ethernet Cable • Power Adapter • Quick Installation Guide

Disclaimer

Attention: This device may only be used indoors in all EU member states, EFTA countries and Northern Ireland.

Attention: This device may only be used indoors in Great Britain.

Specifications are subject to change without notice.

†Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and wireless coverage, and number of connected devices 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.

‡Use of Wi-Fi 6 (802.11ax) and its features including OFDMA, MU-MIMO, 1024-QAM require clients to also support the corresponding features.

§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.

△Use of WPA3 requires clients to also support the corresponding feature.

★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.

※Maximum 5G download and upload speeds depend on external factors such as the local 5G network coverage, data plan, real-time network capacity, client limitations, and environmental factors. Actual supported frequency bands may vary slightly in different regions due to certification.

◇This device requires an activated SIM card without a PIN lock. If the SIM is locked, please consult the quick installation guide for unlocking instructions.