

Archer NX500-Outdoor_V1_Datasheet

5G AX3000 Wi-Fi6 Outdoor Router



Superior 5G up to 4.67 Gbps※



AX3000 Dual Band Wi-Fi 6†



2.5 Gbps Wired Connection★



Durable Outdoor Enclosure

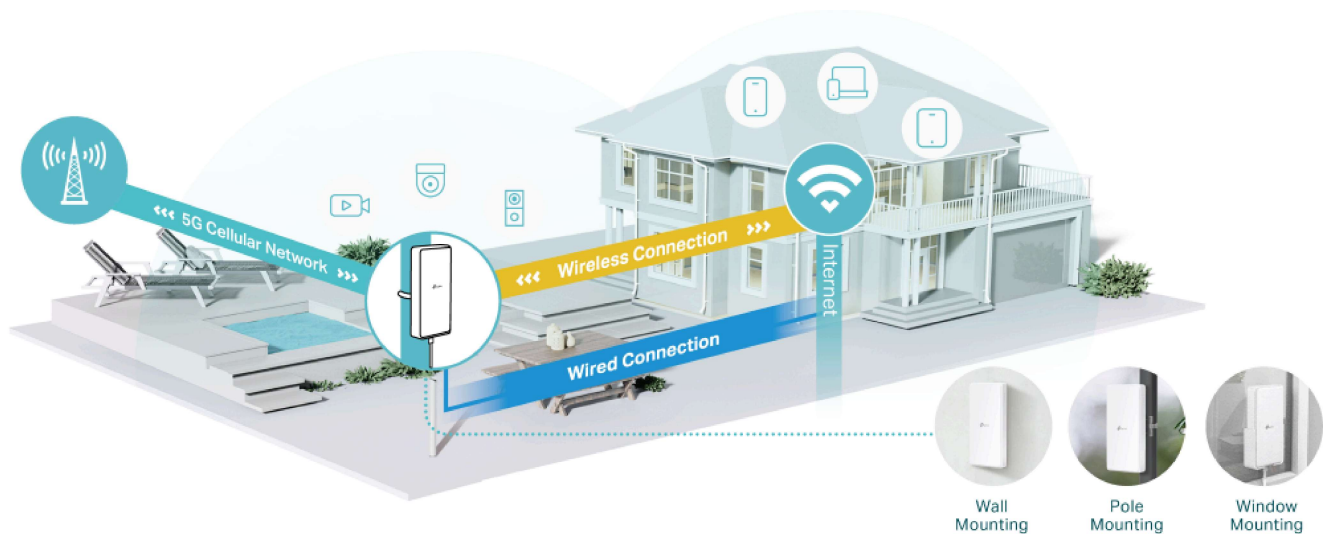


EasyMesh-Compatible Networking△



Highlights

Experience Reliable Connectivity Indoors and Outdoors



Versatile Mounting Solutions for Diverse Environments

The Archer NX500-Outdoor supports versatile mounting on a pole, wall, or window, adapting easily from urban to rural settings. This flexibility helps you find the optimal location for strong signal reception, ensuring fast and reliable 5G connectivity.

Pole Mounting

Wall Mounting

Window Mounting





2.5 Gbps Wired Connection

Enjoy ultra-fast connectivity through a 2.5 Gbps port for smoother streaming, faster downloads, and enhanced gaming performance.★



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.



PoE Power Supply

Supports 802.3at PoE and passive PoE, providing a reliable power supply and effortless network deployment.



Plug and Play

Internet setup made simple. Just plug in an activated SIM card and you're ready to browse.◇

Features



5G Network

- 5G – Ideal for cutting-edge 5G network
- Backward Compatible – Compatible with 4G network



Wi-Fi Range

- Great Coverage – Better coverage with integrated Wi-Fi omnidirectional antennas



Easy of Use

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



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



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 120 wireless devices with ease



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 threats

Specification

Hardware	
Interface	1 × 2.5Gbps WAN/LAN Port (PoE In) 1 × Nano SIM Card Slot 1 × Type-C Port (only for debug)
Buttons	RESET Button
Waterproof	IP66
Antennas	Internal NR/LTE Antennas + Internal Wi-Fi Antennas
External Power Supply	Power: 48V/0.5A 802.3at PoE: 42-57V/0.6A
Dimensions (W x D x H)	9.2 x 4.3 x 1.4 in (233x 110x 37 mm)
Wireless	
Network Type	5G: N1/N3/N5/N7/N8/N20/N28/N38/N40/N41/N75/N76/N77/N78 (2100/1800/850/2600/900/800/700/2600/2300/2500/1500/1500/3700/3500 MHz) 4G: FDD-LTE: B1/B3/B5/B7/B8/B20/B28/B32(2100/1800/850/2600/900/800/700/1500 MHz) TDD-LTE: B38/B40/B41/B42/B43(2600/2300/2500/3500/3700 MHz) 3G: DC-HSPA+/HSPA/UMTS: B1/B5/B8(2100/850/900 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 HE20 MCS11: -64 dBm, 11ax HE20 MCS0: -94 dBm 11ax HE40: -61 dBm, 11ax HE40 MCS11: -61 dBm, 11ax HE40 MCS0: -91 dBm 11ax HE80: -59 dBm, 11ax HE80 MCS11: -59 dBm, 11ax HE80 MCS0: -89 dBm 11ac VHT20: -70 dBm, 11ac VHT20 MCS8: -70 dBm 11ac VHT40: -67 dBm, 11ac VHT40 MCS9: -67 dBm 11ac VHT80: -64 dBm, 11ac VHT80 MCS9: -64 dBm • 2.4 GHz: 11ax HE20: -66 dBm, 11ax HE20 MCS11: -66 dBm, 11ax HE20 MCS0: -94 dBm 11ax HE40: -62 dBm, 11ax HE40 MCS11: -62 dBm, 11ax HE40 MCS0: -91 dBm 11ac VHT20: -71 dBm, 11ac VHT20 MCS8: -71 dBm 11ac VHT40: -67 dBm, 11ac VHT40 MCS9: -67 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: -30°C~60°C (-22°F~140°F) • Storage Temperature: -40°C~70°C (-40 °F~158 °F) • Operating Humidity: 5%~90% RH • Storage Humidity: 5%~90% RH
Package Contents	• 5G AX3000 Wi-Fi 6 Outdoor Router Archer NX500-Outdoor • 10-meter Flat RJ45 Ethernet Cable • PoE Adapter • AC Power Cord • Grounding Terminal • Quick Installation Guide • Window/Pole/Wall Mounting Kits

Disclaimer

Attention: In EU member states, EFTA countries and Northern Ireland, the operation in the frequency range 5150MHz - 5350MHz is only permitted indoors.

Attention: In Great Britain, the operation in the frequency range 5150MHz - 5350MHz is only permitted indoors.

Specifications are subject to change without notice.

※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 product has an IP66 dustproof and waterproof rating; however, it is not designed for prolonged immersion or exposure to high-pressure water jets. Please install and use it according to the quick installation guide to ensure the protective features function properly.

☆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.

§Tested under controlled laboratory conditions. Per CE certification, protection levels are: Lightning/Surge Protection at 2kV for Differential Mode (DM) and 4kV for Common Mode (CM), and ESD Protection at 4kV for Contact Protection and 8kV for Air Protection. For optimal protection, please follow the setup instructions in the quick installation guide.

†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, and 1024-QAM require clients to also support the corresponding features.

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