

TOTO LINK

The Smartest Network Device

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5G Wi-Fi6
Wireless CPE

Model No. **NR3500X**



► Overview

5G Wi-Fi6 Wireless CPE

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NR3500X is an excellent 5G NR indoor Wi-Fi & SIP CPE.

It can be compatible with the 3G/4G LTE/5G band band.

It supports two Gigabit Ethernet ports, one RJ11 telephone port, and supports VoIP voice. Support for 802.11ax WIFI 6, 2.4GHz/5GHz dual-band function.

And provide users with WIFI 6, AX3000 large bandwidth hotspot sharing. Meet the needs of families, enterprises, and chain stores to provide 4G/5G high-speed Internet access services.



► Features

- Complies with the next generation 3GPP Release 15&16 NSA/SA operation 5G NR technology and the next generation Wi-Fi 6 (IEEE 802.11ax) standard
- 5G NR 5G NR transmission rate is 10X faster than the 4G CAT4 rate.
- Simultaneous 2402Mbps on 5GHz and 574Mbps on 2.4GHz for a total of 3000Mbps.
- Portable 5G/4G Wi-Fi Hotspot brings great convenience to users.
- Plug an Ethernet cable into the LAN/WAN port for flexible access as a backup option if you can't get a 4G connection.
- MU-MIMO technology allows data transmission to multiple devices at the same time.
- Full Gigabit LAN ports, VoIP Line.
- Intuitive Web UI and APP ensures quick and simple installation.
- Support Max.256 devices simultaneously.
- ABS plastic material shell. Novel and fashionable appearance.



Selling point

5G to Wi-Fi

The 5G speed is ten times that of the traditional 4G, and the 5G SIM card is plug and play, which will take you to enjoy the extremely fast network world.

It is also compatible with 5G/4G networks and can be switched at any time.



5G/4G/3G/2G



5G/ SA&NSA



3GPP R16



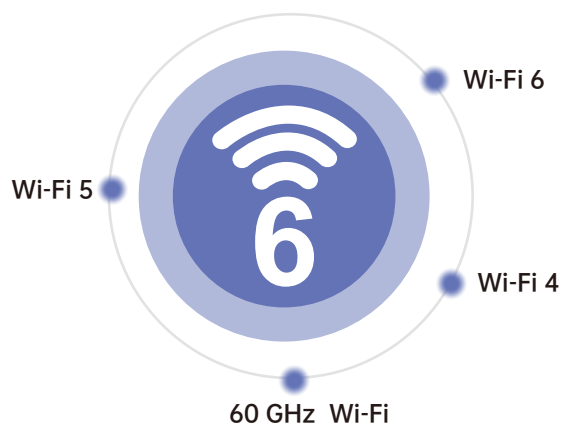
Sub-6G wave

5G NR Technology

NR3500X complies with the next generation 3GPP Release 15&16 NSA/SA operation 5G NR technology, supporting Sub-6G wave data transmission. It could be backward compatible with the 4G LTE band. With powerful dual-mode chip, NR3500X brings a high-speed and stable 5G experience.

The Latest Wi-Fi6 , Fast Wi-Fi Speed

Wi-Fi 6 (IEEE802.11ax) delivers a huge boost in speed and total capacity and takes your Wi-Fi to the next level while being backwards compatible with IEEE802.11a/b/g/n/ac Wi-Fi standards. NR3500X equips with the latest wireless technology 5G NR and Wi-Fi 6, for faster speeds, greater capacity, and reduced network congestion.



3000Mbps Ultra-Fast Wi-Fi Speed

Featuring a 160 MHz bandwidth and 1024-QAM, NR3500X delivers true Gigabit speeds of up to 3000Mbps. It delivers Wi-Fi speeds of up to 2402Mbps on the 5GHz band and 574Mbps on the 2.4GHz band. Every application feels more fluid with drastically improved Wi-Fi speeds. Both 2.4 GHz band and 5 GHz band get upgraded to the latest generation—perfect for 4K streaming, online gaming, and fast downloading.

5GHz

2402Mbps



2.4GHz

574Mbps



Selling point

▶ Loop antennas layout, signal always online

With six high-performance internal antennas and MU-MIMO technology, both Wi-Fi range and 5G NR signal stability improve dramatically. It will deliver improved Wi-Fi range and 5G NR signal stability throughout your home. You'll connect to your devices faster and no more dead zones.

▶ Support External Antenna

Two 5G antenna extension ports(TS-9 Type), allowing users to purchase antennas.



▶ Flexibility 5G / 4G / wired Network

While supporting 5G/4G network connection, NR3500X adds WAN network connection design to fully meet different connection types, including cables.

▶ Support Max. 256 Users Simultaneously

Easily share a 5G/4G connection with up to 256 wireless devices at the same time. 2 LAN ports are ready for wired devices like desktop computers.



5G/4G

Wired Connection

Specification

Hardware

Interface	- 1*1000Mbps WAN/LAN1 Port - 1*1000Mbps LAN2 Port - 1*RJ11 Port, VoIP - 1*TYPE-C - 1*DC/IN
SIM card	- 1* NANO SIM card slot, Or 1* eSIM card(Optional)
Power Supply	- 12V DC/2A
Antenna	- 4 * Internal 5G NR antennas - 2 * Internal Dual-Band Wi-Fi antennas - Plus 2 external antenna TS-9 connector
Button	- 1*Reset button, 1*Mesh button, 1*Power On/Off
LED Indicator	- 1*MESH, 1*5G, 1*4G, 1*WiFi, 1*SYS - 1*WAN(RJ45 build-in), 1*LAN(RJ45 build-in)
Dimensions(L x W x H)	- 127 * 142 * 216MM

Wireless

Standards	- IEEE 802.11ax, IEEE 802.11ac, IEEE 802.11n, IEEE 802.11g, IEEE 802.11b, IEEE 802.11a
RF Frequency	- 2.4GHz/5GHz
Data Rate	- 2.4GHz: Up to 574Mbps - 5GHz: Up to 2402Mbps
EIRP	- 2.4GHz <20dbm - 5GHz <23dbm
Wireless Security	- 64/128-bit WEP, WPA, WPA2 and WPA-Mixed - WPA3
Reception Sensitivity	- 2.4G: 11B_11M: -85 dBm, 11G_54M: -72 dBm, HT20_MCS7: -68 dBm, HT40_MCS7: -65 dBm; HE-SUHT40_MCS11: -48 dBm; - 5G: 11A_54M: -72 dBm, HT20_MCS7: -68 dBm, HT40_MCS7: -65 dBm, VHT80_MCS9: -55 dBm, HE-SUHT40_MCS11: -48dBm, HE-SUHT80_MCS11: -46dBm, HE-SUHT160_MCS11: -43dBm

5G NR

5G NR chip	- Makalu Ivy510 (Release 15), Qualcomm SDX62 (Release 16) Remarks. More Bands Demands please contact with us.
5G/4G Frequency bands (RM500U-EA)	- 5G NR: n1/ 3/ 5*/7/ 8/ 20/ 28/ 38/ 40/ 41/ 66*/ 71/ 77/ 78 - LTE-FDD: B1/ 2/ 3/ 4/ 5/ 7/ 8/ 20/ 28A/ 28B/ 66 - LTE-TDD: B38/ 40/ 41 - WCDMA: B1/ 2/ 5/ 8
5G/4G Frequency bands (RG500U-EA)	- 5G NR: n1/n3/n7/n8/n20/n28/n38/n40/n41/n77/n78/n79 - LTE FDD: B1/B2/B3/B4/B5/B7/B8/B20/B28/B66 - LTE-TDD: B38/B40/B41 - WCDMA: B1/B2/B5/B8
5G/4G Frequency bands (RM520N-EU)	- 5G NR: n1/ 3/ 5/ 7/ 8/ 20/ 28/ 38/ 40/ 41/ 71/ 75/ 76/ 77/ 78 - LTE-FDD: B1/ 3/ 5/ 7/ 8/ 20/ 28/ 32/ 71 - LTE-TDD: B38/ 40/ 41/ 42/ 43 - WCDMA: B1/ 5/ 8

Specification

Hardware

Home	- Quick Setup - EasyMesh - Basic setup - Advanced setup - Logout - Reboot
Network	- WAN Setting - LAN Setting - IP/MAC Binding - DDNS Setting - IPTV Setting - IPv6
WAN Type	- Static IP, DHCP, PPPoE, 5G/4G
Wireless	- Basic setup - Parental Control
Parental Control	- Internet time control based on MAC
Flow Control	- Flow control based on Cellular Networks
QoS	- Up/Down speed control on WAN, Bandwidth control based on IP address
Security	- MAC Filtering - IP/Port Filtering - URL Filtering
NAT	- Virtual Server(Port Forwarding) - DMZ - VPN passthrough
Tools	- Upgrade Firmware - Time Setup - Remote management - Password Settings - Reboot Schedule - TR-069 Config - System Log and so on

Others

Package Contents	- 5G Wi-Fi6 Wireless CPE - Quick Installation Guide - Power Adapter
Environment	- Ethernet Cable - Operating Temperature: 0 °C ~ 40 °C (32 °F ~ 104 °F) - Storage Temperature: -40 °C ~ 70 °C (-40 °F ~ 158 °F) - Operating Humidity: 10%~90% non-condensing - Storage Humidity: 5%~90% non-condensing

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