

Tenda AX3000 Whole Home Mesh WiFi 6 System



# Tenda AX3000 Whole Home Mesh WiFi 6 System User Guide

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**Tenda AX3000 Whole Home Mesh WiFi 6 System**



## Product Information

### Specifications

- Processor: 1.7GHz Quad-Core Broadcom high-performance processor
- RAM: 256MB DDR3
- RF: 4 independent wireless amplifiers
- Standard & Protocol: Wi-Fi 6
- Ethernet Interface: Yes
- Antenna: Yes
- Button: Yes
- LED Indicator: Yes
- Power: Yes
- Dimension: Not specified
- Wireless Standards: 802.11k/v protocol and AP steering technology
- Mesh Network Standard: Yes
- Wireless Roaming Rate: Not specified
- Frequency: Not specified
- Wireless Security: Yes

### Product Usage Instructions

#### 1. Ultra-fast Whole Home Coverage

The EX12 dual-band mesh WiFi system provides ultra-fast coverage for your entire home. With Wi-Fi 6 technology and a powerful 1.7GHz Quad-Core Broadcom processor, you can enjoy a fast network speed of up to 3000Mbps.

#### 2. 160MHz Bandwidth: Feel the True Power of Wi-Fi 6

The EX12 supports 160MHz ultra-large bandwidth, allowing signals to come and go freely on a wider track. When used with mobile phones that support 160MHz bandwidth, the 5G signal frequency band speed can

reach up to 2402Mbps, providing a more enjoyable internet experience.

### 3. **Unstoppable Penetration. Superior Coverage.**

Equipped with 4 independent wireless amplifiers and beamforming technology, the EX12 provides stronger and more stable signal penetration. With just one node, it can penetrate through three walls. With three nodes, it can expand whole home Wi-Fi coverage up to 7,000 ft from the front door to the backyard.

### 4. **One Wi-Fi Name – Smooth Seamless Roaming**

The EX12 units work together under one unified network supported by 802.11k/v protocol and AP steering technology. This creates a seamless roaming experience, where your devices will automatically connect to the best node as you move around in your house.

### 5. **Just Plug and Mesh**

Adding additional EX12 units to your network is easy. Simply plug in an additional EX12 and it will automatically connect with the existing units to form a Mesh network. No wiring is required, allowing you to enjoy extended coverage without any hassle.

## **FAQ (Frequently Asked Questions)**

- **Q: What is the maximum speed of the EX12 dual-band mesh WiFi system?**

A: The EX12 has a maximum speed of up to 3000Mbps.

- **Q: How far can the EX12 extend the Wi-Fi coverage?**

A: With three nodes, the EX12 can expand whole home Wi-Fi coverage up to 7,000 ft from the front door to the backyard.

- **Q: Can the EX12 units be connected with wired Ethernet?**

A: Yes, the EX12 units have an Ethernet interface for wired connections.

## **EX12**

AX3000 Whole Home Mesh WiFi6 System

[www.tendacn.com](http://www.tendacn.com)



## **EX12**

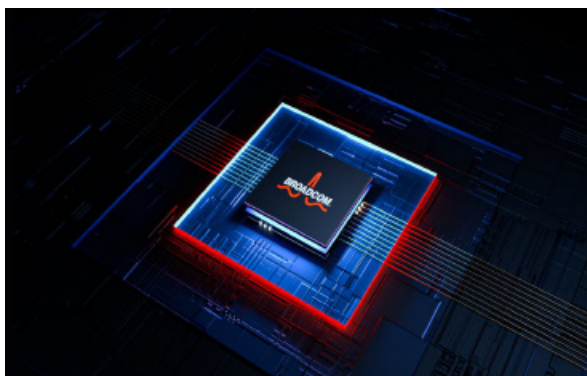
## AX3000 Whole Home Mesh WiFi6 System

The Nova EX12 is an AX3000 Whole Home Mesh Wi-Fi 6 System. EX12 delivers solid Wi-Fi coverage for up to 7,000 ft<sup>2</sup> with four independent wireless amplifiers and beam-forming technology. Compared with AX1800 Wi-Fi 6 products, EX12 is powered by Wi-Fi 6 technology with dual-band concurrency up to 2976Mbps, which is enhanced by 66%. AX3000 Wi-Fi 6 dual-band design and complete Gigabit port support can give full play to your high-speed broadband services. It has a powerful 1.7GHz 4-core CPU and 256°MB large memory, which can handle more terminal device access. All terminals can simultaneously enjoy high-speed Wi-Fi, low latency for online games, and smooth 4K video and VR HD applications. It has the characteristics of easy installation and allows automatic networking and MESH button networking. With the seamless roaming of the entire house, EX12 creates a high-speed and intelligent Mesh wireless network system for the entire family. control.

## Main Features

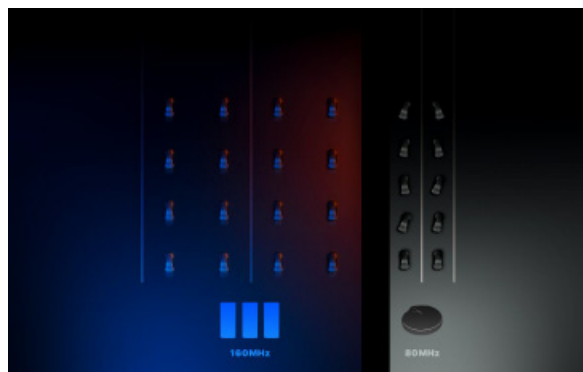
- **Ultra-fast Whole Home Coverage**

Armed with next-gen Wi-Fi 6 technology and 1.7GHz Quad-Core Broadcom high-performance processor, the EX12 dual-band concurrent speed is up to 3000Mbps so that you can enjoy the fast network at all times.



- **160MHz Bandwidth: Feel the True Power of Wi-Fi 6**

Support 160MHz ultra-large bandwidth, and use with mobile phones that support 160MHz bandwidth, allowing signals to come and go freely on a wider track, 5G signal frequency band speed is up to 2402Mbps, and the Internet experience is more fun!



- **Unstoppable Penetration. Superior Coverage.**

With 4 independent wireless amplifiers and beamforming technology, EX12 provides stronger, stabler signal penetration. This is capable of blasting through three walls with one node and expanding whole home Wi-Fi coverage to up to 7,000 ft<sup>2</sup> from the front door to the backyard with three nodes.



- **One Wi-Fi Name Smooth Seamless Roaming**

EX12 units work together under one unified network supported by 802.11k/v protocol and AP steering technology, creating seamless roaming experiences. Your devices will automatically connect to the best node as you move around in your house.



- **Just Plug and Mesh**

Just plug an additional EX12 and it will automatically connect with each other to form a Mesh network. No wiring to enjoy more coverage.



## Specification

### Hardware Specification

- Processor 1.7GHz Quad-Core CPU
- RAM 256MB DDR3
- RF
  - **CE:**
    - <20 dBm (2.4 GHz) <23 dBm (5 GHz)
  - **FCC:**
    - <30 dBm (2.4 GHz) <30 dBm (5 GHz)
- Standard&Protocol IEEE802.11a/b/g/n/ac/ax

IEEE 802.3, IEEE 802.3u, IEEE 802.3ab

- Ethernet Interface 3×10/100/1000Mbps RJ45 ports per node
- Antenna 4x 3dBi Internal antenna
- Button 1xReset Button,1xMESH Button
- LED Indicator 1xTri-color LED Indicator(Green,Yellow,Red)
- Power
  - Input: 100-240V—50/60Hz, 0.6A
  - Output: 12V1.5A
- Dimension 86x86x190mm (3.39 x3.39×7.48 in)

## Wireless Features

- Wireless Standards IEEE802.11a/b/g/n/ac/ax
- Mesh network Standard WiFi EasyMesh
- Wireless roaming Comply with IEEE802.11k/v
- Rate 2.4GHz: 574Mbps (802.11ax) 5GHz: 2402Mbps (802.11ax)
- **Frequency**
  - **CE:**  
2.4G: 2412-2472MHz(CH1-CH13) 5G: 5150-5350MHz(CH36-CH64)
  - **FCC:**  
2.4G: 2412-2462MHz(CH1-CH11) 5G: 5150-5350MHz(CH36-CH64) 5725-5850MHz(CH149-CH165)
- **Basic Features**
  - Beamforming
  - MU-MIMO
  - AP Steering
  - Band Steering
  - OFDMA
  - 1024-QAM
- Wireless Security WPA3-SAE/WPA2-PSK

## Software Features

- Operating Mode Router Mode,AP Mode
- Internet Connection Type PPPoE, Dynamic IP, Static IP, PPPoE(Russia), PPTP(Russia), L2TP(Russia)
- DHCP Server DHCP Server, DHCP Client List
- Virtual Server Port Forwarding, DMZ Host, UPnP
- Parental Control
  - Client Filter
  - URL Filter
  - Time Limit
- Firewall Forbid TCP/UDP flood attack
- VPN PPTP Server, PPTP/L2TP Client
- Management Tenda WiFi APP
  - **WEB** ( <http://tendawifi.com> )

- Others
  - Guest Network
  - Firmware upgrade online
  - IPv6
  - IPTV
  - TR069

## Package Contents

- 3-Pack Mesh12X\* 3, Power adapter x 3, QIG x 1, RJ45 Gigabit Ethernet cable x 1
- 2-Pack Mesh12X\* 2, Power adapter x 2, QIG x 1, RJ45 Gigabit Ethernet cable x 1
- 1-Pack Mesh12X\* 1, Power adapter x 1, QIG x 1, RJ45 Gigabit Ethernet cable x 1

## Others

- Operating Temperature 0~40 °C
- Storage Temperature -40~70 °C
- Operating Humidity 10%~90% RH non-condensing
- Storage Humidity 5%~90% RH non-condensing
- APP installation Available in iOS 9.0 or later, Android 4.4 or later
- Certification CE, FCC, RoHS

## SHENZHEN TENDA TECHNOLOGY CO.,LTD.

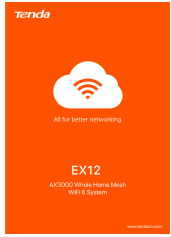
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## Documents / Resources



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AX3000 Whole Home Mesh WiFi 6 System, AX3000, Whole Home Mesh WiFi 6 System, Home Mesh WiFi 6 System, Mesh WiFi 6 System, WiFi 6 System, System

## References

-  [\(Tenda\)](#)
-  [Tenda US](#)
- [User Manual](#)

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