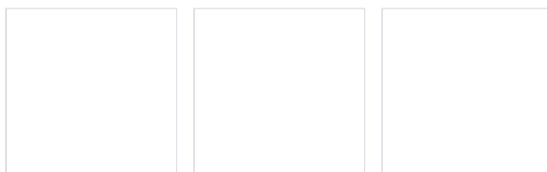


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## Dual Band 802.11ax 1800Mbps Wireless Gigabit Router

» [WDRT-1800AX](#)



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### Amazing Next-generation Wireless High-speed Connection

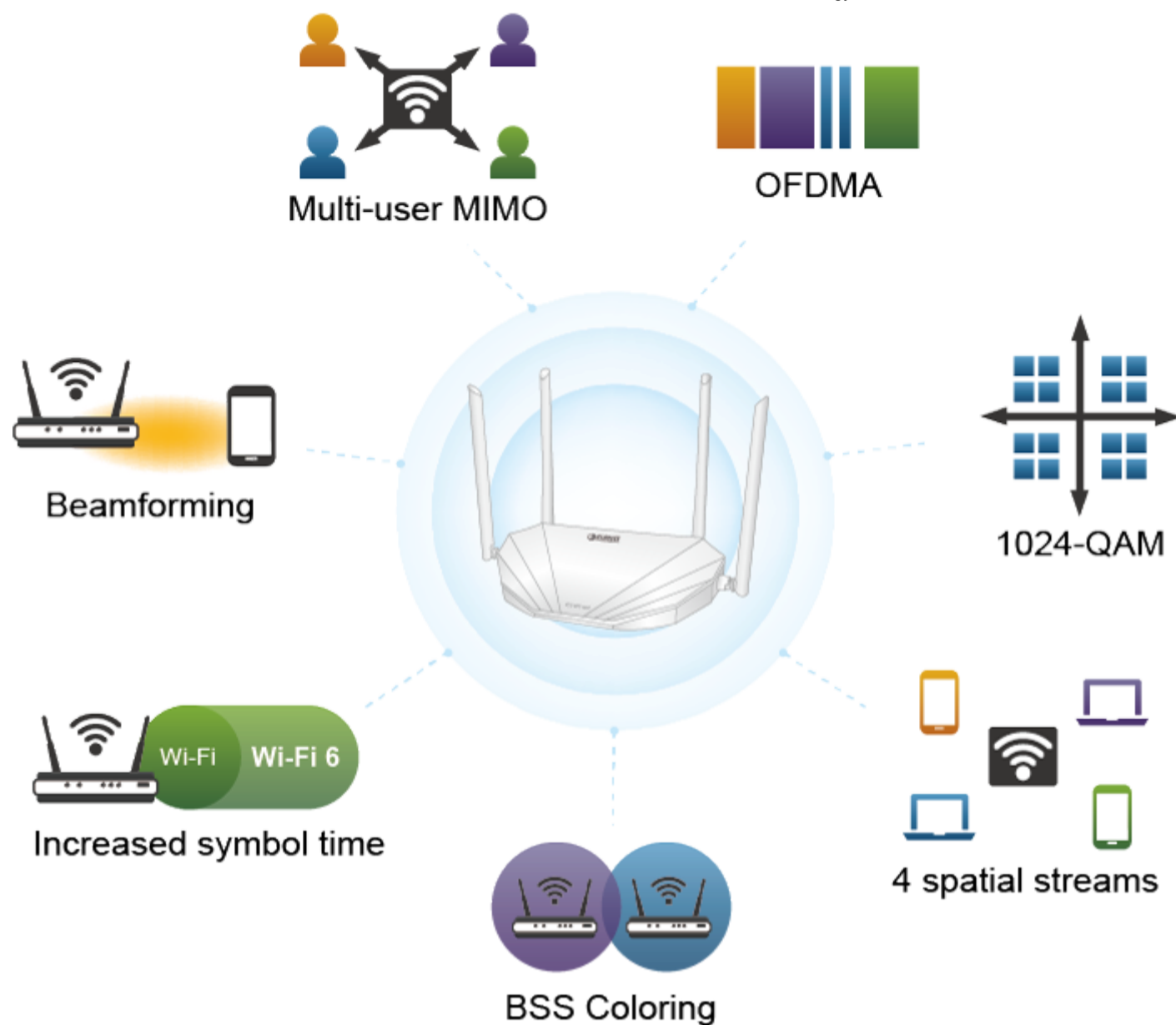
PLANET WDRT-1800AX Dual Band 802.11ax 1800Mbps Wireless Gigabit Router, supporting MU-MIMO, Wave 2.0, OFDMA and EasyMesh technology, provides a maximum wireless speed of 1200Mbps in the 5GHz band and 600Mbps in the 2.4GHz band. The maximum number of client users is up to 64, ensuring more secure and robust connectivity with the adoption of Wi-Fi 6 technology.

The WDRT-1800AX, suitable for home multi-device streaming connection, smart home and other environments, provides better speed and multi-installation connectivity for high-efficiency networking. Equipped with the next-generation Wi-Fi 6 (802.11ax) wireless network standard, the total bandwidth reaches 1800Mbps, and the 4-stream transmission technology improves the transmission efficiency of multiple devices, making AR/VR/IoT applications smoother.

### Benefits of Wi-Fi 6 technology

As OFDMA, a multi-user version of OFDM, enables the concurrent AP to communicate (uplink and downlink) with multiple clients by assigning subsets of subcarriers called resource units (RUs) to the individual clients. With EasyMesh and Seamless Roaming technologies, it provides a better Wi-Fi user experience, reducing the likelihood of users turning off Wi-Fi and putting more load on the cellular network. These technologies also can solve Wi-Fi congestion issues in open workspaces and conference rooms. The WDRT-1800AX can offer more powerful throughput coverage of up to 64 client users.





- **OFDMA (Orthogonal Frequency Division Multiple Access)**

OFDMA is a multi-user evolved version based on OFDM digital modulation technology. In the Wi-Fi 6 (802.11ax) standard, the main function of OFDMA is to improve network performance. Orthogonal frequency division multiple access (OFDMA) enables users to simultaneously operate in the same channel and therefore improves efficiency, latency, and throughput.

## A **75%** Reduction in Delays



- **Beamforming**

Beamforming is to improve your Wi-Fi signal when you are far away from your router. When you use beamforming, Wi-Fi beamforming narrows the focus of that router signal, sending it directly to your devices in a straight line, thus minimizing surrounding signal interference and increasing the strength of the signal that ultimately bring you the following benefits:

- Extend your Wi-Fi coverage
- Deliver a more stable Wi-Fi connection
- Deliver better Wi-Fi throughput
- Reduce router interference





- **BSS (Basic Service Set) Coloring**

The BSS color is a numerical identifier of the BSS. 802.11ax radios are able to differentiate between BSSs using BSS color identifier when other radios transmit on the same channel. If the color is the same, this is considered to be an intra-BSS frame transmission. In other words, the transmitting radio belongs to the same BSS as the receiver. If the detected frame has a different BSS color from its own, then the STA considers that frame as an inter-BSS frame from an overlapping BSS.



### Easy Installation with EasyMesh Function

Wi-Fi EasyMesh provides a standards-based method for implementing multi-access point (AP) Wi-Fi networks. It not only has the advantages of easy-to-use and self-adjusting Wi-Fi, but also has interactive Wi-Fi CERTIFIED™ equipment that leads to the advantage of improved equipment selection flexibility. The Wi-Fi EasyMesh network uses multiple access points that operate together to form a unified network, providing a smart and efficient Wi-Fi that fully covers indoor and outdoor spaces.

### WPA3 Next Generation Security for Your WLAN Solution

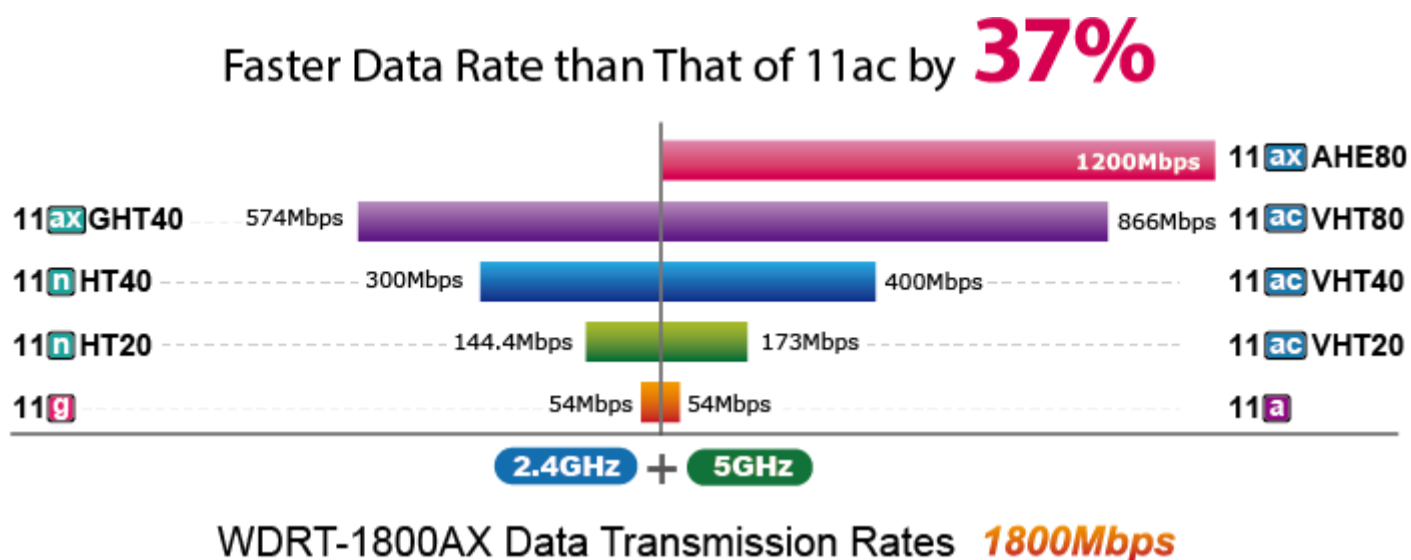
WPA3 is the next generation Wi-Fi security technology that provides the most advanced security protocol to the market. WPA3 makes your connection more secure by preventing hackers from easily cracking your password no matter how simplified the password is. WPA3 can also provide more reliable password-based authentication, so it can better protect the security of individual users.

\* WDRT-1800AX only supports WPA3-Personal.



### Super Power Dual band WLAN Solution

PLANET WDRT-1800AX, adopting the IEEE 802.11ax Wi-Fi 6 standard, provides a high-speed transmission. The maximum wireless speed in 2.4GHz band is up to 11AXG\_GHE40 of 574Mbps, and in the 5GHz band is up to 11AXA\_AHE80 of 1201Mbps. Both the 2.4GHz and 5GHz wireless connections can also be used simultaneously. Furthermore, the WDRT-1800AX adopts the high-class MediaTek SoC (System-on-a-Chip), which provides higher stability to meet the stringent requirements of the solution.



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