

WDRT-1800AX

Dual Band 802.11ax 1800Mbps Wireless Gigabit Router



Amazing Next-generation Wireless High-speed Connection

PLANET WDAP-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.

IEEE Compliant Wireless LAN and Wired LAN

- Compliant with the IEEE 802.11a/b/g/n/ac/ax wireless technology
- Equipped with 1 WAN and 4 LANs with 10/100/1000Mbps
 RJ45 ports, and auto MDI/MDI-X

RF Interface Characteristics

- 802.11ax 2T2R architecture with data rate of up to 1800Mbps (600Mbps in 2.4GHz and 1200Mbps in 5GHz)
- High output power with multiply-adjustable transmit power control

Fixed-network Broadband Router

- Supports WAN connection types: Dynamic, static IP, PPPoE
- Supports Operation Modes: Route, Bridge and Relay mode
- Supports DDNS and DHCP Servers

Multiple Operation Modes and Wireless Features

- Max. Wireless Clients up to 64 (2.4GHz+5GHz)
- Supports MU-MIMO, Wave 2.0, OFDMA, Beamforming and BSS coloring.
- Support Terminal Seamless Roaming with 802.11k, 802.11v, and 802.11r

Comprehensive Wireless Advanced Features

- Easy Installation with EasyMesh Function (Expected to be launched in 2021/Q4)
- Supports guest network to allow users to access different SSIDs
- Supports Wireless QoS to enhance the efficiency of multimedia application
- Supports 3-level Transmitting Power Control to adapt various environments
- Self-healing (Schedule Reboot) mechanism for reliable connection







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.

Secure Network Connection

- Supports Wi-Fi Protected Setup (WPS)
- Support WPA/WPA2/WAP3 wireless security encryption
- Supports NAT firewall, IP / URL-based access control and MAC address filtering

Advanced Networking Function for Specific Application

- Supports Bandwidth Control (QoS) based on different local IP addresses
- Supports NTP, Port Forwarding, ALG and DMZ for various networking applications

Easy Installation and Management

- · Web-based UI and quick setup wizard for easy configuration
- Support for centralized management (TR069)
- · Remote Management allows configuration from a remote site
- System status monitoring includes DHCP Client List and System Log



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.





Applications

Extreme High Speed and Wi-Fi 6 Technology Make Wireless Transmission More Powerful

The WDRT-1800AX delivers the dual band and more bandwidth to avoid signal interference and ensure the best Wi-Fi performance. It allows you to check e-mails and surf the Internet via the 2.4GHz band and simultaneously watch full high-definition (HD) video or any other multimedia application via one 5GHz band. Besides, many client users can be connected to Wi-Fi at the same time. The maximum number of client users is up to 250. Moreover, the Gigabit Ethernet port of the WDRT-1800AX offers ultra-fast wired connections that utilize the maximum wireless bandwidth; therefore, users will experience a fast wireless speed of over 650Mbps. With the outstanding stability of high-speed wireless transmission, the WDRT-1800AX can provide users with excellent experience in multimedia streaming with your mobile devices anywhere, anytime.





Mesh Wi-Fi and Seamless Roaming for Better Coverage

Moving between a traditional Wi-Fi AP or router and range extender, your Wi-Fi signal can experience lag or a dropped connection. Mesh Wi-Fi comes with four features, including Seamless Roaming, Band Steering, Self-Healing, and Client Steering. A set of packages usually includes three to four APs. Each AP is an independent router. When the main AP functions, other APs are used as satellite APs. The whole system can provide Wi-Fi network connection with zero dead angle, meaning a large area is covered.

Its characteristic is not like the traditional star-shaped or tree-shaped network structure which can only communicate with the upper and lower access points, but each access point can connect and communicate with each other, and at the same time, it can automatically find the best path for transmitting packets. This enables your networking environment to get full coverage and efficient performance.



Robust TR-069 Remote Management

To reduce the service provider's manpower needed for on-site maintenance, the WDRT-1800AX supports TR069 (WAN Management Protocol) standard that allows an Auto-Configuration Server (ACS) to perform auto-configuration, provision, collection, and diagnostics to this device remotely.



Specifications

Product	WDRT-1800AX		
Hardware Specifications			
	WAN Port:		
Interface	1 x 10/100/1000 Mbps auto MDI/MDI-X RJ45 port		
	LAN Port		
	4 x 10/100/1000 Mbps auto MDI/MDI-X R I45 port (I AN 1~4)		
Antonna	Four external 7dBi high gain empidirectional antennas (2		
Antenna	4 w WDC (reset butter	46HZ X Z, 56HZ X Z)	
Dutter	1 x WPS/reset button		
Button	Press for about 1 second to enable WPS function.		
	Press for over 5 seconds to reset the device to factory default.		
LED Indicators	PWR x 1		
	LAN x 4		
	WAN x 1		
	WLAN (2.4GHz & 5GHz) x 2		
Dimensions (W x D x H)	234 x 148 x 31mm		
Weight	343g		
Power Requirement	12V DC, 1A		
Wireless Interface Specifications			
	IEEE 802 11a/n/ac/ax 5GHz		
Standard	IEEE 802 11a/b/n/ax 2 4GHz		
Frequency Band	Simultaneous 2 4 GHz and 5 GHz		
Data Rates			
	SGH2 up to 1200Mbps		
	2.4GHz		
	FCC (America): 2.412~2.462GHz (11 Channels)		
Channel	ETSI (Europe): 2.412~2.472GHz (13 Channels)		
	5GHz		
	FCC: 5.180~5.240GHz, 5.745~5.825GHz		
	ETSI: 5.180~5.700GHz	ETSI: 5.180~5.700GHz	
	*The actual channels in application may vary depending	g on the regulations in different regions and countries.	
Channel Width	20MHz, 40MHz, 80MHz		
Max RE Power / EIRP	EIRP < 22dBm		
	2 4GHz	5GHz	
Wdx. W FOWER/ERW	2.4GHz 11b 11Mbps: 22dBm	5GHz 11a 6Mbps [:] 21dBm	
	2.4GHz 11b 11Mbps: 22dBm	5GHz 11a 6Mbps: 21dBm 11a 54Mbps: 19dBm	
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Receive Sensitivity Wireless Output Power	2.4GHz 11b 11Mbps: 22dBm 11g 6Mbps: 21dBm 11g 54Mbps: 20dBm 11n MCS0-HT20: 21dBm 11n MCS7-HT20: 19dBm 11ax MCS11-HE20: 16dBm 11n MCS7-HT40: 19dBm 11ax MCS9-VHT40: 17dBm 11ax MCS11-HESU40: 16dBm 2.4GHz 11b 1Mbps: -96 dBm 11b 11Mbps: -90 dBm 11g 6Mbps: -91 dBm 11g 6Mbps: -91 dBm 11g 54Mbps: -75 dBm 11n MCS0-HT20: -91 dBm 11n MCS0-HT20: -91 dBm 11ax MCS0-HE-HESU20: 91dBm 11ax MCS11-HE-HESU20: 62dBm 11n MCS7-HT40: -70 dBm 11ac MCS9-VHT40: -63 dBm 11ax MCS11-HE-HESU40: 58dBm	5GHz 11a 6Mbps: 21dBm 11a 54Mbps: 19dBm 11ac MCS8-VHT20: 17dBm 11ax MCS11-HE-SU20: 16dBm 11ac MCS9-VHT40: 17dBm 11ax MCS11-HE-SU40: 16dBm 11ac MCS9-VHT80:17dBm 11ax MCS11-HE-SU80: 16dBm 5GHz 11a 6Mbps: -91 dBm 11a 54Mbps: -75 dBm 11n MCS0-HT20: -91 dBm 11n MCS0-HT20: -91 dBm 11ax MCS0-HE-HESU20: 91dBm 11ax MCS11-HE-HESU20: 62dBm 11n MCS7-HT40: -70 dBm 11ac MCS9-VHT40: -63 dBm 11ax MCS11-HE-HESU40: 58dBm 11ac MCS9-VHT80: -58 dBm 11ax MCS11-HE-HESU80: 54dBm	
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Receive Sensitivity Wireless Output Power Transmit Power Control Wireless Management Features Encryption Security	2.4GHz 11b 11Mbps: 22dBm 11g 6Mbps: 21dBm 11g 54Mbps: 20dBm 11n MCS0-HT20: 21dBm 11n MCS7-HT20: 19dBm 11ax MCS11-HE20: 16dBm 11n MCS7-HT40: 19dBm 11ax MCS9-VHT40: 17dBm 11ax MCS11-HESU40: 16dBm 2.4GHz 11b 1Mbps: -96 dBm 11b 11Mbps: -90 dBm 11g 6Mbps: -91 dBm 11g 54Mbps: -75 dBm 11n MCS0-HT20: -91 dBm 11n MCS0-HE20: 91dBm 11ax MCS0-HE-HESU20: 91dBm 11ax MCS11-HE-HESU20: 62dBm 11n MCS7-HT40: -70 dBm 11ac MCS9-VHT40: -63 dBm 11ax MCS11-HE-HESU40: 58dBm Low, Medium, High	5GHz 11a 6Mbps: 21dBm 11a 54Mbps: 19dBm 11ac MCS8-VHT20: 17dBm 11ax MCS11-HE-SU20: 16dBm 11ac MCS9-VHT40: 17dBm 11ax MCS11-HE-SU40: 16dBm 11ac MCS9-VHT80:17dBm 11ax MCS11-HE-SU80: 16dBm 5GHz 11a 6Mbps: -91 dBm 11a 54Mbps: -75 dBm 11n MCS0-HT20: -91 dBm 11n MCS0-HE-HESU20: 91dBm 11ax MCS11-HE-HESU20: 91dBm 11ax MCS11-HE-HESU20: 62dBm 11n MCS7-HT40: -70 dBm 11ac MCS9-VHT40: -63 dBm 11ax MCS11-HE-HESU40: 58dBm 11ax MCS11-HE-HESU80: 54dBm	
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Receive Sensitivity Wireless Output Power Transmit Power Control Wireless Management Features Encryption Security Wireless Security	2.4GHz 11b 11Mbps: 22dBm 11g 6Mbps: 21dBm 11g 54Mbps: 20dBm 11n MCS0-HT20: 21dBm 11n MCS7-HT20: 19dBm 11ax MCS11-HE20: 16dBm 11ax MCS1-HT40: 19dBm 11ax MCS9-VHT40: 17dBm 11ax MCS11-HESU40: 16dBm 2.4GHz 11b 1Mbps: -96 dBm 11b 1Mbps: -90 dBm 11g 6Mbps: -91 dBm 11g 54Mbps: -75 dBm 11n MCS0-HT20: -71 dBm 11ax MCS0-HE-HESU20: 91dBm 11ax MCS11-HE-HESU20: 91dBm 11ax MCS11-HE-HESU20: 62dBm 11n MCS7-HT40: -70 dBm 11ac MCS9-VHT40: -63 dBm 11ax MCS11-HE-HESU40: 58dBm Low, Medium, High WPA/WPA2/WPA3 Wireless MAC address filtering Supports WPS (Wi-Fi Protected Setup)	5GHz 11a 6Mbps: 21dBm 11a 54Mbps: 19dBm 11ac MCS8-VHT20: 17dBm 11ax MCS11-HE-SU20: 16dBm 11ac MCS9-VHT40: 17dBm 11ax MCS11-HE-SU40: 16dBm 11ac MCS9-VHT80:17dBm 11ax MCS11-HE-SU80: 16dBm 5GHz 11a 6Mbps: -91 dBm 11a 54Mbps: -75 dBm 11n MCS0-HT20: -91 dBm 11n MCS0-HE-HESU20: 91dBm 11ax MCS11-HE-HESU20: 62dBm 11n MCS7-HT40: -70 dBm 11ac MCS9-VHT40: -63 dBm 11ax MCS11-HE-HESU40: 58dBm 11ax MCS11-HE-HESU80: 54dBm	
Receive Sensitivity Wireless Output Power Transmit Power Control Wireless Management Features Encryption Security Wireless Security Wireless Advanced	2.4GHz 11b 11Mbps: 22dBm 11g 6Mbps: 21dBm 11g 54Mbps: 20dBm 11n MCS0-HT20: 21dBm 11n MCS0-HT20: 21dBm 11n MCS0-HT20: 21dBm 11n MCS7-HT20: 19dBm 11ax MCS11-HE20: 16dBm 11n MCS7-HT40: 19dBm 11ax MCS1-HESU40: 16dBm 2.4GHz 11b 1Mbps: -96 dBm 11g 6Mbps: -91 dBm 11g 54Mbps: -90 dBm 11g 54Mbps: -91 dBm 11g 54Mbps: -75 dBm 11n MCS0-HT20: -71 dBm 11ax MCS0+HE-HESU20: 91dBm 11ax MCS1-HE-HESU20: 62dBm 11n MCS7-HT40: -70 dBm 11ac MCS9-VHT40: -63 dBm 11ax MCS11-HE-HESU40: 58dBm Low, Medium, High WPA/WPA2/WPA3 Wireless MAC address filtering Supports WPS (Wi-Fi Protected Setup) Supports dual-SSID (2.4GHz and 5GHz) Purports dual-SSID (2.4GHz and 5GHz)	5GHz 11a 6Mbps: 21dBm 11a 54Mbps: 19dBm 11ac MCS8-VHT20: 17dBm 11ax MCS11-HE-SU20: 16dBm 11ac MCS9-VHT40: 17dBm 11ax MCS11-HE-SU40: 16dBm 11ac MCS9-VHT80:17dBm 11ax MCS11-HE-SU80: 16dBm 5GHz 11a 6Mbps: -91 dBm 11a 54Mbps: -75 dBm 11n MCS0-HT20: -91 dBm 11n MCS0-HE-HESU20: 91dBm 11ax MCS11-HE-HESU20: 62dBm 11n MCS7-HT40: -70 dBm 11ac MCS9-VHT40: -63 dBm 11ax MCS11-HE-HESU40: 58dBm 11ax MCS11-HE-HESU80: 54dBm	
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Receive Sensitivity Wireless Output Power Transmit Power Control Wireless Management Features Encryption Security Wireless Security Wireless Advanced Max. Supported Clients	2.4GHz 11b 11Mbps: 22dBm 11g 6Mbps: 21dBm 11g 54Mbps: 20dBm 11n MCS0-HT20: 21dBm 11n MCS0-HT20: 21dBm 11n MCS7-HT20: 19dBm 11ax MCS11-HE20: 16dBm 11n MCS7-HT40: 19dBm 11ax MCS1-HE20: 16dBm 11n MCS7-HT40: 17dBm 11ax MCS1-HESU40: 16dBm 2.4GHz 11b 1Mbps: -96 dBm 11g 6Mbps: -91 dBm 11g 54Mbps: -91 dBm 11g 54Mbps: -75 dBm 11n MCS0-HT20: -91 dBm 11n MCS0-HT20: -91 dBm 11ax MCS0-HE-HESU20: 91dBm 11ax MCS11-HE-HESU20: 62dBm 11n MCS7-HT40: -70 dBm 11ax MCS11-HE-HESU40: 58dBm Low, Medium, High WPA/WPA2/WPA3 Wireless MAC address filtering Supports WPS (Wi-Fi Protected Setup) Supports dual-SSID (2.4GHz and 5GHz) Supports guest network 2.4GHz	5GHz 11a 6Mbps: 21dBm 11a 54Mbps: 19dBm 11ac MCS8-VHT20: 17dBm 11ax MCS11-HE-SU20: 16dBm 11ac MCS9-VHT40: 17dBm 11ax MCS11-HE-SU40: 16dBm 11ac MCS9-VHT80:17dBm 11ax MCS11-HE-SU80: 16dBm 5GHz 11a 6Mbps: -91 dBm 11a 54Mbps: -75 dBm 11n MCS0-HT20: -91 dBm 11n MCS0-HE-HESU20: 91dBm 11ax MCS11-HE-HESU20: 62dBm 11n MCS7-HT40: -70 dBm 11ac MCS9-VHT40: -63 dBm 11ax MCS11-HE-HESU40: 58dBm 11ax MCS11-HE-HESU80: 54dBm	



Router Features	
WAN	Shares data and Internet access with users, supporting the following Internet accesses: Dynamic IP Static IP PPPoE
LAN	Built-in DHCP server supporting static IP address distribution Supports IP MAC binding
Firewall	NAT firewall, SPI firewall Built-in NAT server which supports port forwarding and DMZ Built-in firewall with URL filtering, and MAC address filtering
System Management	Web-based (HTTP) management interface Telnet server Supports UPnP, PLANET DDNS SNTP synchronization System log TR069
Standards Conformance	
IEEE Standards	IEEE 802.11ax IEEE 802.11ac IEEE 802.11n IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11i IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3a b 1000BASE-T IEEE 802.3x flow control IEEE 802.3x flow control IEEE 802.11k, 802.11v, and 802.11r
Modulation Type	802.3ax: OFDMA (BPSK / QPSK / 16QAM / 64QAM / 256QAM/1024QAM) 802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) 802.11a/g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11b: DSSS (DBPSK / DQPSK / CCK)
Other Protocols and Standards	TCP/IP, DHCP, NAT, PPPoE, NTP
Regulatory	CE, RoHS
Environment	
Temperature	Operating: 0 ~ 40 degrees C Storage: -40 ~ 70 degrees C
Humidity	Operating: 10 ~ 90% (non-condensing) Storage: 5 ~ 95% (non-condensing)

Ordering Information

WDRT-1800AX

Dual Band 802.11ax 1800Mbps Wireless Gigabit Router

Related Products

WDAP-C7210E	1200Mbps 802.11ac Wave 2 Dual Band Ceiling-mount Wireless Access Point w/802.3at PoE+ and 2 10/100/1000T LAN Ports
WDAP-W1200E	Dual Band 802.11ac 1200Mbps Wave 2 In-wall Wireless Access Point
WDAP-C1800AX	Dual Band 802.11ax 1800Mbps Ceiling-mount Wireless Access Point w/802.3at PoE+ & 2 10/100/1000T LAN Ports

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WDRT-1800AX

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