

# Dual Band 802.11ax 3000Mbps Ceiling-mount Wireless Access Point w/802.3at PoE+ and 2 10/100/1000T LAN Ports



### Ultra-high-speed Wi-Fi 6 Wireless LAN Solution

PLANET WDAP-C3000AX **3000Mbps Dual Band 802.11ax Wireless AP**, supporting **Wi-Fi MESH**, **MU-MIMO**, **OFDMA**, **Seamless Roaming**, Beamforming and **BSS Coloring technology**, provides a maximum wireless speed of 2400Mbps in the 5GHz band and 600Mbps in the 2.4GHz band. The maximum number of client users is up to 256, ensuring more secure and robust connectivity with the adoption of Wi-Fi 6 technology.



# Benefits of MU-MIMO, OFDMA, Seamless Roaming, Beamforming and BSS Coloring

The WDAP-C3000AX can be installed in public areas such as hotspots, airports and conferences 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 0 clients. With MU-MIMO 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. Beamforming is to improve your Wi-Fi signal when you are far away from your router. 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.

These technologies also can solve Wi-Fi congestion issues in open work spaces and conference rooms. The WDAP-C3000AX can offer more powerful throughput coverage of up to 256 client users.

### **Industrial Compliant Wireless LAN**

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

#### **RF Interface Characteristics**

- 802.11ax 2T2R architecture with data rate of up to 3000Mbps (600Mbps in 2.4GHz and 2400Mbps in 5GHz)
- High output power with multiply-adjustable transmit power control

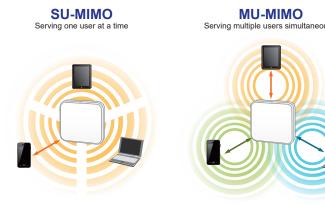
### Multiple Operation Modes and Wireless Features

- · Multiple operation modes: AP, gateway and repeater
- Supports OFDMA (orthogonal frequency division multiple access)
- Supports MU-MIMO (multi-user multiple-input multiple-output),
   Beamforming and BSS Coloring
- WMM (Wi-Fi multimedia) provides higher priority to multimedia transmitting over wireless
- Coverage threshold to limit the weak signal of clients occupying session
- Real-time Wi-Fi channel analysis chart and client limit control for better performance
- Support Terminal Seamless Roaming with 802.11k, 802.11v, and 802.11r
- Supports Mesh connection (The maximum number of Mesh supported device is 6 pcs.)

### Secure Network Connection

- Full encryption supported: WPA3 Personal, WPA2/WPA3
   Personal, WPA2 Personal (AES), WPA2 Personal (TKIP),
   WPA2 Personal (TKIP+AES), WPA/WPA2 Personal
   (AES), WPA/WPA2 Personal (TKIP), WPA/WPA2 Personal
   (TKIP+AES), WPA2 Enterprise, WPA/WPA2 Enterprise
- Supports 802.1Q port VLAN Supports IP/Port/MAC address/ URL filtering, DoS, SPI firewall
- · Supports DMZ and port forwarding
- · Bandwidth control per IP address to increase network stability



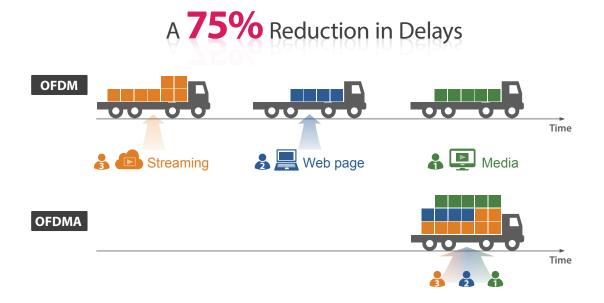


### Easy Deployment and Management

- Support management by PLANET CloudViewer and CloudViewerPro app
- Supports PLANET AP Controllers in AP mode
- · Easy discovery by PLANET Smart Discovery
- · Self-healing mechanism through system auto reboot setting
- · System status monitoring through remote syslog server
- Gateway mode supports PLANET DDNS/Easy DDNS,
   Captive Portal, RADIUS Server/Client

### ■ OFDMA (Orthogonal Frequency Division Multiple Access) Benefits

- Helps transmit small and large packets together to reduce bandwidth burden and improve data transmission performance
- Transmitting data at the same time can effectively reduce the transmission delay for longer frame and low-speed transmission.
- Improves the overall traffic quality, and effectively uses bandwidth in an environment where multiple people use the Internet.
- Increases the number of devices that can be connected to the AP.
- Reduces the power consumption of the device by way of the use of low bandwidth.

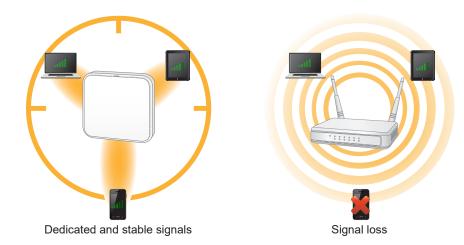


### ■ Beamforming

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:

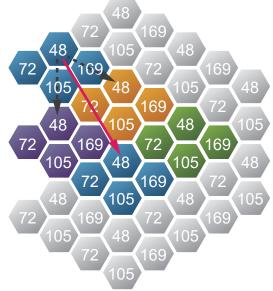
- Extend your Wi-Fi coverage
- Deliver a more stable Wi-Fi connection
- Deliver better Wi-Fi throughput
- Reduce router interference





### ■ BSS Coloring

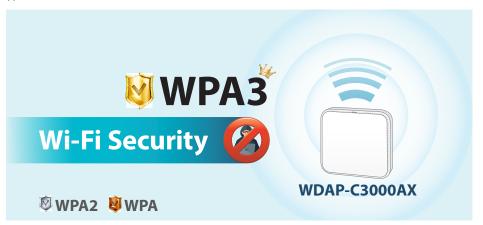
The BSS color is a numerical identifier of the BSS. 802.11ax radios that are able to differentiate between BSSs using BSS color identifier when other radios transmit on the same channel. If the color is the same, this is considered to be an intra-BSS frame transmission. In other words, the transmitting 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.



### 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.

\* WDAP-C3000AX only supports WPA3-Personal.

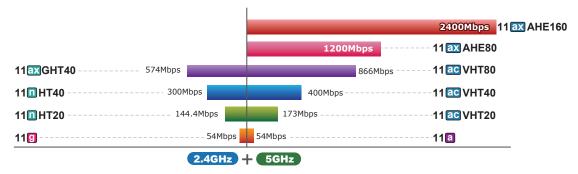




### Super Power Dual band WLAN Solution

PLANET WDAP-C3000AX, 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 11AX of 574Mbps, and in the 5GHz band is up to 11AX of 2402Mbps. Both the **2.4GHz** and **5GHz** wireless connections can also be used simultaneously.

# 11ax has Faster Data Rate than That of 11ac by 177%



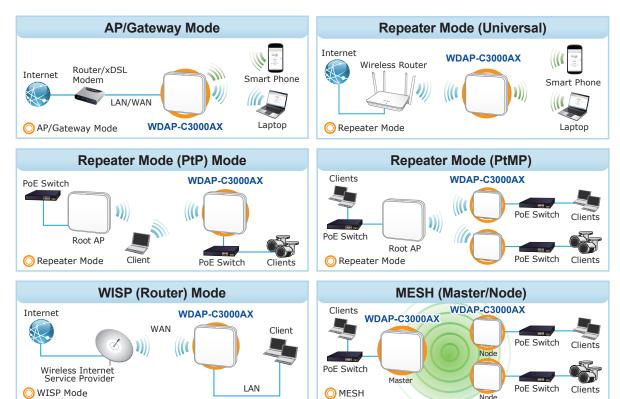
Data Transmission Rates 3000Mbps

### Advanced Security and Rigorous Authentication

The WDAP-C3000AX supports WPA/WPA2/WPA3 wireless encryptions, and also supports the WPA2 Enterprise, and WPA/WPA2 Enterprise, which can effectively prevent eavesdropping by unauthorized users or bandwidth occupied by unauthenticated wireless access. Furthermore, any users are granted or denied access to the wireless LAN network based on the ACL (Access Control List) that the administrator pre-established.

### Multiple Operation Modes for Various Applications

The WDAP-C3000AX supports the simplified usage modes of AP, Gateway and Repeater, through which they provide more flexibility for users when wireless network is established. Compared with general wireless access points, the WDAP-C3000AX offers more powerful and flexible capability for wireless clients.



5GHz 802.11ax

2.4GHz 802.11ax



### Optimized Efficiency in AP Management with Cloud and NMS system

Via the PLANET CloudViewerPro app, you can monitor and control Access Points in real time without a specified location and time limitation. The brand-new GUI configuration wizard helps the system administrator easily set up the WDAP-C3000AX step by step. Besides, the built-in Wi-Fi analyzer provides real-time channel utilization to prevent channel overlapping to assure greater performance. With the automatic transmission power mechanism, distance control and scheduling reboot setting, the WDAP-C3000AX is easy for the administrator to deploy and manage without on-site maintenance. Moreover, you can use PLANET NMS-500 or NMS-1000V AP control function to deliver wireless profiles to multiple APs simultaneously, thus making the central management simple.

### Home Dashboard for Wi-Fi Status



### Mesh Wi-Fi for More Hassle-free Network

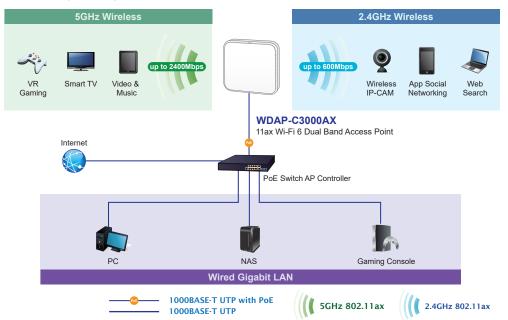
WDAP-C3000AX supports Mesh, which is an open standard wireless networking technology that enhances Wi-Fi coverage and stability. It allows different brands of routers and Wi-Fi devices to work together seamlessly, providing a unified network experience. Mesh supports multiple frequency bands, fast roaming, and intelligent management for optimal performance. With its easy setup and automated configuration, users can enjoy extended coverage and a reliable Wi-Fi connection throughout their homes or offices. Mesh is a convenient solution for those seeking improved Wi-Fi coverage and a hassle-free network setup.

(The maximum number of Mesh supported device is 6 pcs.)

## **Applications**

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

The WDAP-C3000AX 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 256. Moreover, the Gigabit Ethernet port of the WDAP-C3000AX offers ultra-fast wired connections that utilize the maximum wireless bandwidth; therefore, users will experience a fast wireless speed of over 700Mbps. With the outstanding stability of high-speed wireless transmission, the WDAP-C3000AX can provide users with excellent experience in multimedia streaming with your mobile devices anywhere, anytime.

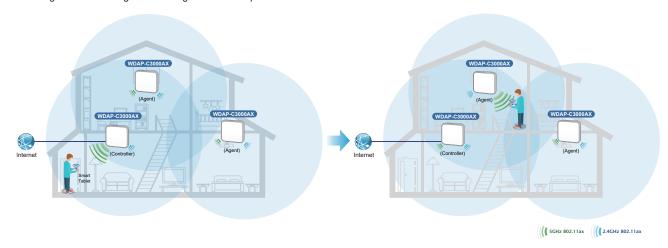




### Mesh Wi-Fi and Seamless Roaming for Better Coverage

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.



# **Specifications**

Product	WDAP-C3000AX
Hardware Specifications	
Interfaces	LAN 2 x 10/100/1000BASE-T RJ45 port
	Auto-negotiation and auto MDI/MDI-X
Antennas	Gain: 4 x Internal 4dBi antenna (2.4G x2, 5G x2)
Reset Button	Reset button on the rear side (Press over 5 seconds to reset the device to factory default)
LED Indicators	Power, SYS
Dimensions (W x D x H)	168 x 168 x 32 mm
Weight	380 ± 5g
Power Requirements	48V DC IN, 0.5A, IEEE 802.3at PoE+ (WAN/PoE were changed port)
Fower Requirements	12V DC IN, 1.5A from DC Jack (5.5 x 2.1mm)
Power Consumption	<15W
Mounting	Ceiling Mount
Wireless Interface Specifications	
	IEEE 802.11ax
	IEEE 802.11ac
	IEEE 802.11n
	IEEE 802.11a
	IEEE 802.11b
Standard	IEEE 802.11g
Standard	IEEE 802.11i
	IEEE 802.3 10BASE-T
	IEEE 802.3u 100BASE-TX
	IEEE 802.3ab 1000BASE-T
	IEEE 802.3x flow control
	IEEE 802.11k, 802.11v, and 802.11r
Media Access Control	CSMA/CA
Data Modulation	802.11ax: MIMO-OFDMA (BPSK / QPSK / 16QAM / 64QAM / 256QAM, 1024QAM)
	802.11ac: MIMO-OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)
	802.11a/g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)
	802.11b: DSSS (DBPSK / DQPSK / CCK)



Band Mode	2.4GHz / 5GHz concu	rrent mode				
	2.4GHz:					
Frequency Range	FCC: 2.412~2.462G					
	ETSI: 2.412~2.472G					
	5GHz:					
		Hz. 5.745~5.825GHz				
		FCC: 5.180~5.240GHz, 5.745~5.825GHz ETSI: 5.180~5.700GHz				
	ETSI:					
Operating Channels	2.4GHz: 1, 2, 3, 4, 5 5GHz: 36, 40, 44, 48 FCC: 2.4GHz: 1, 2, 3, 4, 5 5GHz: 36, 40, 44, 48 153, 157, 161	GHz: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 (13 Channels) dz: 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120,124,128,132, 136, 140 (19 Channels)  GHz: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 (11 Channels) dz: 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116,120,124,128,132, 136, 140, 149, 153, 157, 161,165 (24Channels)				
		-	es according to their regulations.			
	FCC: up to 22 ± 1dBm ETSI: < 19dBm (EIRP					
	Network Mode	Data Rate	Max. Transmit Power (dBm)			
	2.4G Power		` <u>`</u>			
	000 445	11M	22 ± 2			
	802.11b	1M	22 ± 2			
		54M	19 ± 2			
	802.11g	6M	21 ± 2			
	000 44 - UT00	MCS7	18 ± 2			
	802.11n HT20	MCS0	20 ± 2			
	902 44	MCS7	18 ± 2			
	802.11n HT40	MCS0	20 ± 2			
	802.11ax HT20	MCS11	16 ± 2			
	002.11ax 11120	MCS0	20 ± 2			
	802.11ax HT40	MCS11	16 ± 2			
	002.11ax 11140	MCS0	20 ± 2			
	5G Power					
	802.11a	54M	19 ± 2			
Max. Transmit Power (dBm)	002.114	6M	21 ± 2			
	802.11n HT20	MCS7	18 ± 2			
	002.1111120	MCS0	20 ± 2			
	802.11n HT40	MCS7	18 ± 2			
	332	MCS0	20 ± 2			
	802.11ac HT20	MCS7	17 ± 2			
		MCS0	20 ± 2			
	802.11ac HT40	MCS7	17 ± 2			
		MCS0	20 ± 2			
	802.11ac HT80	MCS9	17 ± 2			
		MCS0	19 ± 2			
	802.11ax HT20	MCS11	16±2			
		MCS0	20 ± 2			
	802.11ax HT40	MCS11	16 ± 2			
		MCS0	20 ± 2			
	802.11ax HT80	MCS11	16±2			
		MCS0	19 ± 2			
	802.11ax HT160	MCS11	14 ± 2			
		MCS0	18 ± 2			



2.46Hz		Network Mode	Data Rate	Receive Sensitivity (dBm)		
			Data Rate	Receive Sensitivity (upin)		
Machine   Michine   Mich		2.70112	1Mhns	-96		
602.11g		802.11b	· ·			
		802.11g	·			
			· ·			
		802.11n HT20				
		802.11n HT40				
MCS11				-92		
		802.11ax HT20	MCS11	-64		
SGHz			MCS0	-89		
Receive Sensitivity		802.11ax HT40	MCS11	-61		
Receive Sensitivity		5GHz				
Receive Sensitivity			6Mbps	-90		
		802.11a		-75		
	Receive Sensitivity					
		802.11n HT20				
802.11ac HT20		802.11n HT40				
802.11ac HT20						
802.11ac HT40   MCS0		802.11ac HT20				
NCS7   -64     NCS0   -58     NCS0   -61     NCS0   -61     NCS0   -61     NCS0   -61     NCS0   -61     NCS0   -68     NCS0   -68   NCS11   -62     NCS0   -68   NCS11   -62     NCS0   -68   NCS11   -58   NCS0   -68   NCS11   -58   NCS0   -64   NCS0   -64   NCS1   -55     NCS0   -62     NCS1   -55     NCS0   -62     NCS11   -55     NCS0   -62     NCS11   -55     NCS0   -62     NCS11   -55     NCS0   -62   NCS11   -51   NCS0   -62   NCS11   -51   NCS0   NCS11   NCS0   N						
MCS0		802.11ac HT40				
802.11ax HT80   MCS9   -61						
MCS0		802.11ac HT80				
MCS11   -62						
MCS0   -88   MCS11   -58   ACS   -88   MCS11   -58   ACS   -84   ACS   ACS   -84   ACS		802.11ax HT20				
MCS11   -58     MCS0   -84     MCS0   -85     MCS0   -82     MCS0   -82     MCS11   -51     MCS0   -82     MCS11   -51     MCS0   -82     MCS11   -51     MCS12   -51     MCS12   -51     MCS13   -51     MCS13   -51     MCS14   -51     M						
MCS0		802.11ax HT40				
MCS11   -55     MCS0   -92     MCS11   -51     MCS0   -51     MCS1   -52     M						
MCS0		802.11ax HT80				
Software Features  LAN Static IP / Dynamic IP  WAN Static IP / Dynamic IP  PPPOE/PPT/L2TP  Access Point Gateway Repeater WISP Mesh (The maximum number of Mesh supported device is 6 pcs.)  Channel Width 20MHz, 40MHz, 80MHz, 160MHz  WPA3 Personal, WPA2/WPA3 Personal, WPA2 Personal (AES), WPA2 Personal (TKIP), WPA2 Personal (TKIP+AES), WPA/WPA2 Enterprise, WPAWPA2 Enterprise  Encryption Security Wireless Max. 32 MAC address filtering User Isolation  Max. SSIDs 8 (4 per radio)  Max. Clients 256 (200 is suggested, depending on usage)  Wireless Advanced Wirelicannel analysis chart Seamless Roaming Beamforming  Wireless Roaming Beamforming						
Software Features  LAN Static IP / Dynamic IP  WAN Dynamic IP  PPPOE/PPTP/L2TP  Access Point Gateway  Repeater WISP Mesh (The maximum number of Mesh supported device is 6 pcs.)  Channel Width 20MHz, 40MHz, 80MHz, 160MHz  WPA3 Personal, WPA2/WPA3 Personal (AES), WPA2 Personal (TKIP), WPA2 Personal (TKIP+AES), WPA2 Enterprise, WPAVPA2 Enterprise  Encryption Security (TKIP+AES), WPA/WPA2 Enterprise Enable/Disable SSID Broadcast Wireless Security Wireless Max. 32 MAC address filtering User Isolation  Max. SSIDs 8 (4 per radio)  Max. Clients 256 (200 is suggested, depending on usage)  Wireless QoS  Wireless Advanced Wirels Roaming Beamforming  Wireless Noaming Beamforming		802.11ax HT160				
Static IP Dynamic IP PPPOE/PPTP/L2TP  Access Point Gateway Repeater WISP Mesh (The maximum number of Mesh supported device is 6 pcs.)  Channel Width 20MHz, 40MHz, 80MHz, 160MHz WPA3 Personal, WPA2/WPA3 Personal (AES), WPA2 Personal (TKIP), WPA2 Personal Encryption Security (TKIP+AES), WPA/WPA2 Personal (AES), WPA2 Personal (TKIP), WPA2 Personal (TKIP+AES), WPA/WPA2 Personal (AES), WPA/WPA2 Personal (TKIP), WPA/WPA2 Personal (TKIP), WPA/WPA2 Personal (TKIP), WPA/WPA2 Personal (TKIP+AES), WPA/WPA2 Personal (TKIP), WPA/WPA2 Personal (TKIP+AES), WPA/WPA2 Personal (TKIP), WPA/WPA2 Personal (TKIP), WPA/WPA2 Personal (TKIP+AES), WPA/WPA2 Personal (TKIP), WPA/WPA2 Personal (TKIP+AES), WPA/WPA2 Personal (TKIP), WPA/WPA2	Software Features					
Wireless Mode  Wireless Max. 32 MAC address filtering User Isolation  Wireless Max. 32 MAC address filtering User Isolation  Wireless QoS  Wireless Advanced  Wireless Advanced  Wireless Roaming Beamforming  Beamforming  Wireless Roaming Beamforming  Wireless Roaming Beamforming  Wireless Roaming Beamforming  Wireless Roaming Beamforming  Beamforming  Access Point  Access Point  Gateway  Repeater  Wisp  Meash Supported device is 6 pcs.)  WiPA2 Personal (AES), WPA2 Personal (AES), WPA2 Personal (TKIP), WPA2 Personal (TKIP), WPA2 Personal (TKIP), WPA2 Personal (TKIP+AES), WPA2 Personal (TKIP+AES), WPA2 Personal (TKIP+AES), WPA2 Personal (TKIP), WPA2 Personal (TKIP+AES), WPA2 Enterprise  Enable/Disable SSID Broadcast  Wireless Max. 32 MAC address filtering  User Isolation  Max. SSIDs  8 (4 per radio)  Max. Clients  Standard (25 w) or Min (15 w)  Client Limit Control, Coverage Threshold  Wireless Advanced  Wireless Roaming  Beamforming	LAN	Static IP / Dynamic IP				
PPPOE/PPTP/L2TP  Access Point Gateway Repeater WISP Mesh (The maximum number of Mesh supported device is 6 pcs.)  Channel Width 20MHz, 40MHz, 80MHz, 160MHz WPA3 Personal, WPA2/WPA3 Personal, WPA2 Personal (AES), WPA2 Personal (TKIP), WPA2 Personal (TKIP+AES), WPA/WPA3 Personal, AES), WPA/WPA2 Personal (AES), WPA/WPA2 Personal (TKIP), WPA2 Personal (T						
Access Point Gateway Repeater WISP Mesh (The maximum number of Mesh supported device is 6 pcs.)  Channel Width 20MHz, 40MHz, 80MHz, 160MHz  Encryption Security WPA3 Personal, WPA2/WPA3 Personal, WPA2 Personal (TKIP), WPA2 Personal (TKIP+AES), WPA/WPA2 Personal (AES), WPA/WPA2 Personal (TKIP), WPA/WPA2 Personal (TKIP+AES), WPA/WPA2 Enterprise Enable/Disable SSID Broadcast Wireless Security Wireless Max. 32 MAC address filtering User Isolation  Max. SSIDs 8 (4 per radio)  Max. Clients 256 (200 is suggested, depending on usage)  Wireless QoS Supports Wi-Fi Multimedia (WMM)  Auto Channel Selection 5-level Transmit Power Control Max (100%), Efficient (75%), Enhanced (50%), Standard (25%) or Min (15%) Client Limit Control, Coverage Threshold  Wi-Fi channel analysis chart Seamless Roaming Beamforming	WAN					
Wireless Mode  Wireless Mode  Gateway Repeater WISP Mesh (The maximum number of Mesh supported device is 6 pcs.)  Channel Width  20MHz, 40MHz, 80MHz, 160MHz WPA3 Personal, WPA2 Personal (AES), WPA2 Personal (TKIP), WPA2 Personal (TKIP+AES), WPA/WPA2 Personal (AES), WPA2 Personal (TKIP), WPA2 Personal (TKIP+AES), WPA2 Personal (AES), WPA2 Personal (TKIP), WPA2 Personal (TKIP+AES), WPA2 Enterprise  Enable/Disable SSID Broadcast Wireless Max. 32 MAC address filtering User Isolation  Max. SSIDs  8 (4 per radio)  Max. Clients  256 (200 is suggested, depending on usage)  Wireless QoS  Supports Wi-Fi Multimedia (WMM)  Auto Channel Selection 5-level Transmit Power Control Max (100%), Efficient (75%), Enhanced (50%), Standard (25%) or Min (15%) Client Limit Control, Coverage Threshold  Wi-Fi channel analysis chart Seamless Roaming Beamforming		PPPoE/PPTP/L2TP				
Wireless Mode  Wireless Mode  Repeater WISP Mesh (The maximum number of Mesh supported device is 6 pcs.)  Channel Width  20MHz, 40MHz, 80MHz, 160MHz WPA3 Personal, WPA2/WPA3 Personal, WPA2 Personal (AES), WPA2 Personal (TKIP), WPA2 Personal Encryption Security  WPA3 Personal, WPA2/WPA3 Personal (AES), WPA/WPA2 Personal (TKIP), WPA/WPA2 Personal (TKIP+AES), WPA2 Enterprise, WPA/WPA2 Enterprise  Enable/Disable SSID Broadcast Wireless Max. 32 MAC address filtering User Isolation  Max. SSIDs  8 (4 per radio)  Max. Clients  256 (200 is suggested, depending on usage)  Wireless QoS  Supports Wi-Fi Multimedia (WMM)  Auto Channel Selection 5-level Transmit Power Control Max (100%), Efficient (75%), Enhanced (50%), Standard (25%) or Min (15%) Client Limit Control, Coverage Threshold  Wi-Fi channel analysis chart Seamless Roaming Beamforming		Access Point				
WISP Mesh (The maximum number of Mesh supported device is 6 pcs.)  Channel Width 20MHz, 40MHz, 40MHz, 160MHz WPA3 Personal, WPA2/WPA3 Personal (AES), WPA2 Personal (TKIP), WPA2						
MISP Mesh (The maximum number of Mesh supported device is 6 pcs.)  Channel Width  20MHz, 40MHz, 80MHz, 160MHz WPA3 Personal, WPA2 Personal (AES), WPA2 Personal (TKIP), WPA2 Personal (TKIP+AES), WPA/WPA2 Personal (AES), WPA/WPA2 Personal (TKIP), WPA2 Personal (TKIP), WPA	MC colores March	Repeater	·			
(The maximum number of Mesh supported device is 6 pcs.)  Channel Width 20MHz, 40MHz, 80MHz, 160MHz  WPA3 Personal, WPA2/WPA3 Personal (AES), WPA2 Personal (TKIP), WPA2 Personal (TKIP+AES), WPA/WPA2 Personal (AES), WPA/WPA2 Personal (TKIP), WPA/WPA2 Per	Wireless Mode	WISP	WISP			
Channel Width  20MHz, 40MHz, 80MHz, 160MHz  WPA3 Personal, WPA2/WPA3 Personal (AES), WPA2 Personal (TKIP), WPA2 Personal  (TKIP+AES), WPA/WPA2 Personal (AES), WPA/WPA2 Personal (TKIP), WPA/WPA2 Personal (TKIP+AES),  WPA2 Enterprise, WPA/WPA2 Enterprise  Enable/Disable SSID Broadcast  Wireless Max. 32 MAC address filtering  User Isolation  Max. SSIDs  8 (4 per radio)  Max. Clients  256 (200 is suggested, depending on usage)  Wireless QoS  Supports Wi-Fi Multimedia (WMM)  Auto Channel Selection  5-level Transmit Power Control Max (100%), Efficient (75%), Enhanced (50%), Standard (25%) or Min (15%)  Client Limit Control, Coverage Threshold  Wi-Fi channel analysis chart  Seamless Roaming  Beamforming		Mesh				
WPA3 Personal, WPA2/WPA3 Personal, WPA2 Personal (AES), WPA2 Personal (TKIP), WPA2 Personal (TKIP+AES), WPA/WPA2 Personal (AES), WPA/WPA2 Personal (TKIP), WPA/WPA2 Personal (TKIP+AES), WPA/WPA2 Personal (AES), WPA/WPA2 Personal (TKIP), WPA/WPA2 Personal (TKIP+AES), WPA/WPA2 Personal (TKIP), WPA/WPA2 Personal (TKIP+AES), WPA/WPA2 Personal (TKIP), WPA/WPA2 Personal (TKIP), WPA2 Personal (TKIP), WPACH (WPA2 Personal (TKIP), WPACH (WPACH		(The maximum numbe	(The maximum number of Mesh supported device is 6 pcs.)			
Encryption Security  (TKIP+AES), WPA/WPA2 Personal (AES), WPA/WPA2 Personal (TKIP), WPA/WPA2 Personal (TKIP+AES), WPA2 Enterprise, WPA/WPA2 Enterprise  Enable/Disable SSID Broadcast Wireless Max. 32 MAC address filtering User Isolation  Max. SSIDs  8 (4 per radio)  Max. Clients  256 (200 is suggested, depending on usage)  Wireless QoS  Supports Wi-Fi Multimedia (WMM)  Auto Channel Selection 5-level Transmit Power Control Max (100%), Efficient (75%), Enhanced (50%), Standard (25%) or Min (15%) Client Limit Control, Coverage Threshold  Wi-Fi channel analysis chart Seamless Roaming Beamforming	Channel Width	20MHz, 40MHz, 80MH	Iz, 160MHz			
WPA2 Enterprise, WPA/WPA2 Enterprise  Enable/Disable SSID Broadcast  Wireless Max. 32 MAC address filtering User Isolation  Max. SSIDs  8 (4 per radio)  Max. Clients  256 (200 is suggested, depending on usage)  Wireless QoS  Supports Wi-Fi Multimedia (WMM)  Auto Channel Selection 5-level Transmit Power Control Max (100%), Efficient (75%), Enhanced (50%), Standard (25%) or Min (15%) Client Limit Control, Coverage Threshold  Wi-Fi channel analysis chart Seamless Roaming Beamforming		WPA3 Personal, WPA2/WPA3 Personal, WPA2 Personal (AES), WPA2 Personal (TKIP), WPA2 Personal				
Enable/Disable SSID Broadcast Wireless Security Wireless Max. 32 MAC address filtering User Isolation  Max. SSIDs 8 (4 per radio)  Max. Clients 256 (200 is suggested, depending on usage)  Wireless QoS Supports Wi-Fi Multimedia (WMM)  Auto Channel Selection 5-level Transmit Power Control Max (100%), Efficient (75%), Enhanced (50%), Standard (25%) or Min (15%) Client Limit Control, Coverage Threshold Wi-Fi channel analysis chart Seamless Roaming Beamforming	Encryption Security	(TKIP+AES), WPA/WP	(TKIP+AES), WPA/WPA2 Personal (AES), WPA/WPA2 Personal (TKIP), WPA/WPA2 Personal (TKIP+AES),			
Wireless Security  Wireless Max. 32 MAC address filtering User Isolation  Max. SSIDs  8 (4 per radio)  Max. Clients  256 (200 is suggested, depending on usage)  Wireless QoS  Supports Wi-Fi Multimedia (WMM)  Auto Channel Selection 5-level Transmit Power Control Max (100%), Efficient (75%), Enhanced (50%), Standard (25%) or Min (15%) Client Limit Control, Coverage Threshold  Wi-Fi channel analysis chart Seamless Roaming Beamforming		WPA2 Enterprise, WPA	WPA2 Enterprise, WPA/WPA2 Enterprise			
User Isolation  Max. SSIDs 8 (4 per radio)  Max. Clients 256 (200 is suggested, depending on usage)  Wireless QoS Supports Wi-Fi Multimedia (WMM)  Auto Channel Selection 5-level Transmit Power Control Max (100%), Efficient (75%), Enhanced (50%), Standard (25%) or Min (15%) Client Limit Control, Coverage Threshold  Wi-Fi channel analysis chart Seamless Roaming Beamforming		Enable/Disable SSID E	Enable/Disable SSID Broadcast			
Max. SSIDs  Max. Clients  256 (200 is suggested, depending on usage)  Wireless QoS  Supports Wi-Fi Multimedia (WMM)  Auto Channel Selection 5-level Transmit Power Control Max (100%), Efficient (75%), Enhanced (50%), Standard (25%) or Min (15%) Client Limit Control, Coverage Threshold  Wi-Fi channel analysis chart Seamless Roaming Beamforming	Wireless Security	Wireless Max. 32 MAC	Wireless Max. 32 MAC address filtering			
Max. Clients  256 (200 is suggested, depending on usage)  Wireless QoS  Supports Wi-Fi Multimedia (WMM)  Auto Channel Selection 5-level Transmit Power Control Max (100%), Efficient (75%), Enhanced (50%), Standard (25%) or Min (15%)  Client Limit Control, Coverage Threshold  Wi-Fi channel analysis chart Seamless Roaming Beamforming		User Isolation	User Isolation			
Wireless QoS  Supports Wi-Fi Multimedia (WMM)  Auto Channel Selection 5-level Transmit Power Control Max (100%), Efficient (75%), Enhanced (50%), Standard (25%) or Min (15%) Client Limit Control, Coverage Threshold Wi-Fi channel analysis chart Seamless Roaming Beamforming	Max. SSIDs	8 (4 per radio)	8 (4 per radio)			
Auto Channel Selection 5-level Transmit Power Control Max (100%), Efficient (75%), Enhanced (50%), Standard (25%) or Min (15%) Client Limit Control, Coverage Threshold Wi-Fi channel analysis chart Seamless Roaming Beamforming	Max. Clients	256 (200 is suggested,				
5-level Transmit Power Control Max (100%), Efficient (75%), Enhanced (50%), Standard (25%) or Min (15%) Client Limit Control, Coverage Threshold Wi-Fi channel analysis chart Seamless Roaming Beamforming	Wireless QoS	Supports Wi-Fi Multime	edia (WMM)			
Client Limit Control, Coverage Threshold Wireless Advanced Wi-Fi channel analysis chart Seamless Roaming Beamforming		Auto Channel Selection				
Wireless Advanced Wi-Fi channel analysis chart Seamless Roaming Beamforming		5-level Transmit Power	5-level Transmit Power Control Max (100%), Efficient (75%), Enhanced (50%), Standard (25%) or Min (15%)			
Seamless Roaming Beamforming		Client Limit Control, Coverage Threshold				
Beamforming	Wireless Advanced	Wi-Fi channel analysis chart				
BSS Coloring		Beamforming				
-		BSS Coloring	BSS Coloring			



	Device status, wireless client List
Status Monitoring	PLANET Smart Discovery
	DHCP client table
	System Log supports remote syslog server
VLAN	IEEE 802.1Q VLAN (VID: 1~4094)
	SSID-to-VLAN mapping to up to 4 SSIDs
Self-healing	Supports auto reboot settings per day/hour
	Remote management through PLANET DDNS/ Easy DDNS
	Configuration backup and restore
Managament	Supports UPnP
Management	Supports IGMP Proxy
	Supports PPTP/L2TP/IPSec VPN Pass-through
	Supports Captive Portal, RADIUS Server/Client
Control Management	Applicable controllers: NMS APC, WS APC, VR/IVR APC, ICG APC, PLANET CloudViewer, PLANET
Central Management	CloudViewerPro
Environment & Certification	
Temperature	Operating: -20~ 55 degrees C
	Storage: -40 ~ 70 degrees C
Humidity	Operating: 10 ~ 90% (non-condensing)
	Storage: 5 ~ 95% (non-condensing)
Regulatory	CE, RoHS
Remarks [*]: The feature will be supported	ed through firmware/system upgrade.

# **Ordering Information**

WDAP-C3000AX	Dual Band 802.11ax 3000Mbps Ceiling-mount Wireless Access Point w/802.3at PoE+ and 2 10/100/1000T LAN Ports
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### **Related Wireless 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-W1800AXU	Dual Band 802.11ax 1800Mbps In-wall Wireless Access Point w/802.3at PoE+ and Type C USB
WDAP-C1800AX	Dual Band 802.11ax 1800Mbps Ceiling-mount Wireless Access Point w/802.3at PoE+ & 2 10/100/1000T LAN Ports
WDAP-1800AX	Dual Band 802.11ax 1800Mbps Outdoor Wireless AP
WBS-900AC-KIT	5GHz 802.11ac 900Mbps TDMA Outdoor Long Range Wireless CPE Kit
NMS-500	Enterprise-class Universal Network Management Controller - 500 nodes, 5 10/100/1000T LAN Ports
NMS-1000V-12	Universal Network Management Controller with 12" LCD Touch Screen 1024 Nodes, 2 10/100/1000T LAN Ports
NMS-1000V-10	Universal Network Management Controller with 10" LCD Touch Screen 1024 Nodes, 2 10/100/1000T LAN Ports
WS-1032P	Wireless AP Managed Switch with 8-Port 802.3at PoE + 2-Port 10G SFP+
VR-300P	Enterprise 4-Port 10/100/1000T 802.3at PoE + 1-Port 10/100/1000T VPN Security Router
IVR-300FP	Industrial 4-Port 10/100/1000T 802.3at PoE + 1-Port 10/100/1000T + 1-Port 1000X SFP VPN Security Gateway
ICG-2515W-NR	Industrial 5G NR Cellular Wireless Gateway with 5-Port 10/100/1000T

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