

# **IAP-2400AX**

# Industrial 5GHz 802.11ax 2400Mbps Wireless Access Point with 5 10/100/1000T LAN Ports



Ultra-high-speed Wi-Fi-6 Wireless LAN Solution with Environmentally Hardened Design

PLANET IAP-2400AX Industrial 5GHz 802.11ax 2400Mbps Wireless Access Point with 5 10/100/1000T LAN Ports is equipped with a rugged IP30 metal case for stable operation in heavy industrial environments. The IAP-2400AX supporting MU-MIMO, OFDMA, Seamless Roaming, Beamforming and BSS Coloring provides a maximum wireless speed of 2400Mbps in the 5GHz band. The maximum number of client users is up to 150, ensuring more secure and robust connectivity with the adoption of Wi-Fi 6 technology.

As the IAP-2400AX is able to operate under wide temperature range from -40 to 75 degrees C, it can be placed in almost any difficult environment. The IAP-2400AX also allows either DIN rail or wall mounting for efficient use of cabinet space.



### Super Power and Reliable 5GHz WLAN Solution

The IAP-2400AX, adopting the IEEE 802.11ax Wi-Fi 6 standard, provides a high-speed transmission. The maximum wireless speed in the 5GHz band is up to 11AXA\_AHE80 of 1201Mbps.

### **Physical Interfaces**

- 4 x 10/100/1000BASE-T RJ45 LAN ports, auto-negotiation, auto MDI/MDI-X (Port 1 to Port 4)
- 1 x 10/100/1000BASE-T RJ45 WAN/LAN port, autonegotiation, auto MDI/MDI-X (Port 5)
- 4 x 5GHz band RP-SMA connectors with antennas
- 1 USB 3.0 port for system configuration backup/upload and firmware upgrade
- 1 x reset button for system factory default and reboot

### LAN Port

- Hardware-based 10/100Mbps, half/full duplex and 1000Mbps full duplex mode, flow control and autonegotiation, and auto MDI/MDI-X
- Features Store-and-Forward mode with wire-speed filtering and forwarding rates
- IEEE 802.3x flow control for full duplex operation and back
  pressure for half duplex operation
- 10K jumbo frame
- · Automatic address learning and address aging

### Industrial Case and Installation

- IP30 metal case protection
- DIN rail or wall-mount design
- DC 9-54V, redundant power with reverse polarity protection
- -40 to 75 degrees C operating temperature

### Digital Input and Digital Output

- 2 Digital Input (DI)
- 2 Digital Output (DO)
- · Integrate sensors into auto alarm system

### **Multiple Operation Modes Options**

 Multiple operation modes: AP/Repeater and Gateway mode options

### Industrial Compliant Wireless LAN

Compliant with the IEEE 802.11a/an/ac/ax wireless technology

### **RF Interface Characteristics**

- 802.11ax 4T4R architecture with data rate of up to 2400Mbps (in 5GHz)
- High output power with multiply-adjustable transmit power control

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

	2400Mbps	11 💷 AHE160
1200Mbps 11@XAHE80		
866Mbps 11@C VHT80		
400Mbps 11@CVHT40		
173Mbps 11@C VHT20		
54Mbps 11a		
5GHz		

#### Data Transmission Rates 2400Mbps

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

The IAP-2400AX 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 individual 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 IAP-2400AX can offer more powerful throughput coverage of up to 150 client users.

#### 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.

# A **75%** Reduction in Delays



### Secure Wireless Connection Features

- 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
- MAC ACL

### Wireless AP Mode Features

- Supports OFDMA (orthogonal frequency division multiple access)
- Supports MU-MIMO (multi-user multiple-input multipleoutput), 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
- Terminal Seamless Roaming with 802.11k, 802.11v, and 802.11r

### Gateway Mode Features

- · Built-in RADIUS server/Client
- Captive Portal
- UPnP
- IP routing protocol supports RIPv1/v2, OSPF
- PLANET DDNS/Easy DDNS
- · SPI firewall, DDoS block, system security and NAT ALGs
- MAC address/IP/Web filtering and QoS
- · DMZ and port forwarding

### Easy Deployment and Management

- · Supports PLANET AP Controllers in AP mode
- · 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
- PLANET Smart Discovery Utility for deployment management
- PLANET NMS system and CloudViewer for deployment management

#### 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

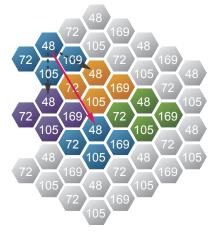


## Without Beamforming



#### BSS 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.



#### WPA3 Next Generation Security for Your WLAN Solution

The 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.

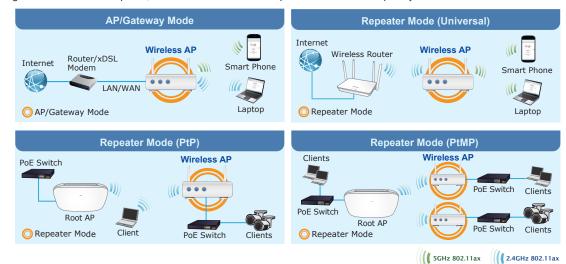


#### Advanced Security and Rigorous Authentication

The IAP-2400AX supports WPA/WPA2/WPA3 wireless encryptions, suitable for the WPA2 Enterprise and WPA/WPA2 Enterprise where eavesdropping and unauthorized users or bandwidth occupied by unauthenticated wireless access can be effectively prevented. Furthermore, granting or denying access to the wireless LAN network based on the ACL (Access Control List) to any users can be pre-established by the administrator.

#### Multiple Operation Modes for Various Applications

The unit supports the simplified usage modes of AP and Gateway, through which they provide more flexibility for users when wireless network is established. Compared with general wireless access points, the IAP-2400AX offers more powerful and flexible capability for wireless clients.



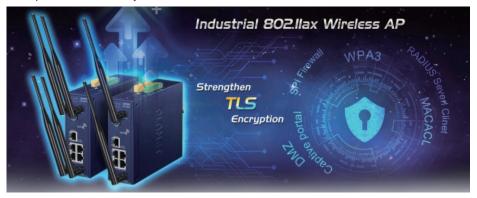
#### Optimized Efficiency in AP Management

The brand-new GUI configuration wizard helps the system administrator easily set up the IAP-2400AX 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 IAP-2400AX 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



#### Cybersecurity Network Solution to Minimize Security Risks

The IAP-2400AX supports TLS protocols to provide strong protection against advanced threats. It includes a cybersecurity feature such as **SNMPv3** authentication, and so on to complement it as a security solution.



#### Friendly and Secure Management

For efficient management, the IAP-2400AX is equipped with Web and SNMP management interfaces.

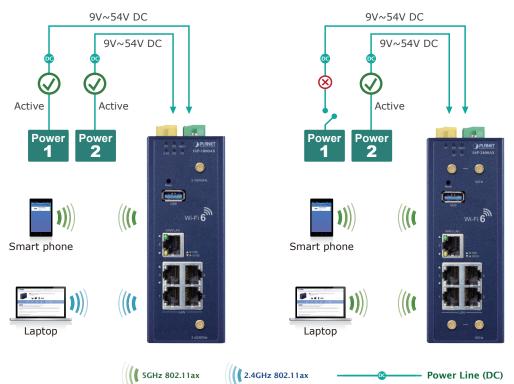
- With the built-in Web-based management interface, the IAP-2400AX offers an easy-to-use, platform-independent management and configuration facility.
- By supporting the standard SNMP protocol, the switch can be managed via any SNMP-based management software.

Moreover, the IAP-2400AX offers secure remote management by supporting TLS protocols and SNMP v3 connections which encrypt the packet content at each session.

#### Dual Power Input for High Availability Network System

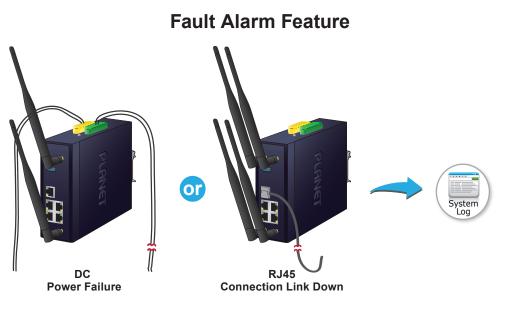
The IAP-2400AX features a strong dual power input system with wide-ranging voltages (9V~54V DC) incorporated into customer's automation network to enhance system reliability and uptime. In the example below, when power supply 1 fails to work, the hardware failover function will be activated automatically to keep powering the IAP-2400AX via power supply 2 alternatively without any loss of operation.

# Non-stop 802.11ax Wireless Service Dual Power Input with Auto Failover



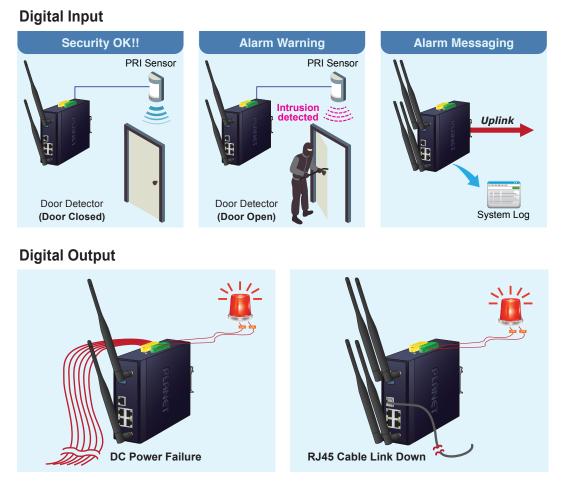
### Effective Alarm Alert for Better Protection

The IAP-2400AX supports a Fault Alarm feature which can alert the users when there is something wrong with the device. With this ideal feature, the users would not have to waste time finding where the issue is. It will help to save time and human resource.



#### Digital Input and Digital Output for External Alarm

The IAP-2400AX supports Digital Input and Digital Output on its upper panel. This external alarm enables users to use Digital Input to detect and log external device status (such as door intrusion detector), and send event alarm to the administrators. The Digital Output could be used to alarm the administrators if the IAP-2400AX port shows link down, link up or power failure.



#### Flexible and Easy Installation with Limited Space

The compact-sized IAP-2400AX is specially designed to be installed in a narrow environment, such as a wall enclosure. It can be installed by fixed wall mounting or DIN rail, thereby making its usability more flexible and easier in any space-limited location.



**DIN-rail Mounting** 



Wall Mounting

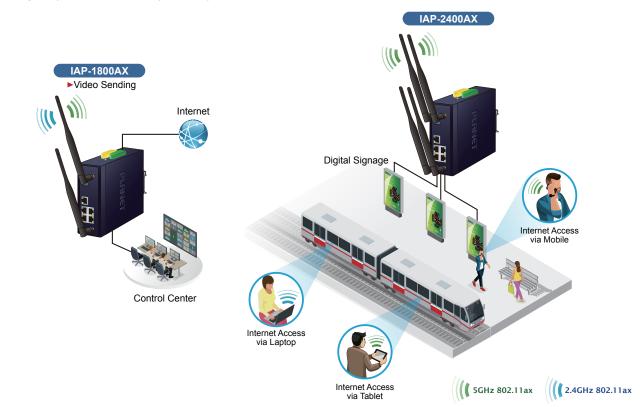


Side Wall Mounting (Space saving)

# **Applications**

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

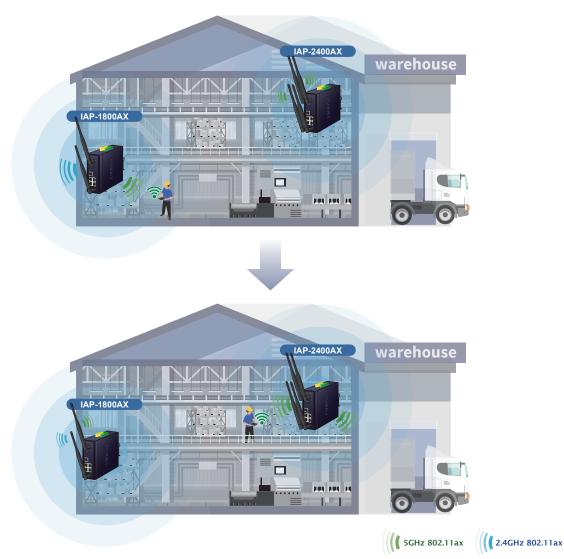
The IAP-2400AX delivers the 5GHz band and more bandwidth to avoid signal interference and ensure the best Wi-Fi performance. It allows you to check e-mails and surf the Internet and simultaneously watch full high-definition (HD) video or any other multimedia application via one 5GHz band. Besides, many client users can be connected to Wi-Fi at the same time. The maximum number of client users is up to 150. Moreover, the Gigabit Ethernet port of the IAP-2400AX offers ultra-fast wired connections that utilize the maximum wireless bandwidth; therefore, users will experience a fast wireless speed of over 900Mbps. With the outstanding stability of high-speed wireless transmission, the IAP-2400AX can provide users with excellent experience in multimedia streaming with your mobile devices anywhere, anytime.



#### Seamless Roaming and 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. With Seamless Roaming and intuitive technology, moving to different area is never an issue now that your devices are switched to the strongest Wi-Fi signal automatically.

The IAP-2400AX features advanced 4T4R MU-MIMO technology which reduces the effect of dead spot, so that it can get better coverage of the existing wireless network. Furthermore, the repeater mode supported by the IAP-2400AX helps to minimize the effort of installation, thus reducing cabling cost.



# **Seamless Roaming**

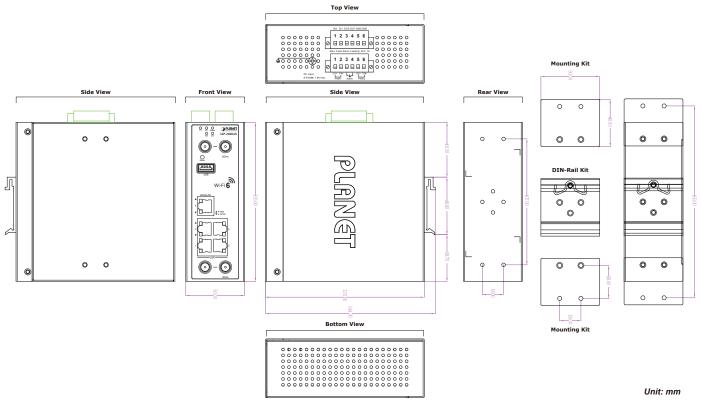
# Specifications

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Product	IAP-2400AX		
Hardware Specifications			
	5 10/100/1000BAS	E-T RJ45 Ethernet ports including	
Interfaces	4 LAN ports (Ports	1 to 4)	
	1 WAN/LAN port (F	Port 5)	
Wireless Connector	Built-in four RP-SM	IA female connectors	
USB Port	1 USB 3.0 port		
	2 Digital Input (DI):		
	Level 0: -24V~2.1V		
	Level 1: 2.1V~24V (		
DI & DO Interfaces	Input Load to 24V E		
	2 Digital Output (DO		
		4V DC, 100mA max.	
		erminal block for power input	
Connector		, Pin 3/4 for fault alarm, Pin 5/6 for Power 2	
Reset Button	< 5 sec: System ret		
<b>-</b>	> 10 sec: Factory d	erault	
Enclosure	IP30 metal case		
	DIN-rail, desktop, w		
Dimensions (W x D x H)	50 x 135 x 135 mm		
Weight	787g		
Power Requirements – DC		9~54V DC, 1.8A	
Power Consumption		Max. 5.9 watts/ 20BTU (No Loading at DC 54V)	
	Max.10.8 watts/ 36	Max.10.8 watts/ 36BTU (Full loading at DC 54V)	
	System:		
	P1 (Green)		
	P2 (Green)	P2 (Green)	
	Alarm (Red)		
LED Indicators	I/O (Red)	I/O (Red)	
	Ethernet Interface	Ethernet Interfaces (Ports 1-4 LAN Port and Port 5 WAN/LAN Port):	
	1000 LNK/ACT (Gr	1000 LNK/ACT (Green)	
	10/100 LNK/ACT (A	10/100 LNK/ACT (Amber)	
	Wi-Fi:	Wi-Fi:	
	5GHz(Green)	5GHz(Green)	
Wireless Specifications			
Standard	IEEE 802.11a/an/ac	c/ax 5GHz (4Tx4R)	
Band Mode	5GHz concurrent m	node	
		FDMA (BPSK / QPSK / 16QAM / 64QAM / 256QAM, 1024QAM)	
Data Modulation		802.11ac: MIMO-OFDMA (BPSK / QPSK / 16QAM / 64QAM / 256QAM) 802.11ac: MIMO-OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)	
		802.11a/g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)	
Antenna		4 dBi external antennas with RP-SMA male connectors for Wi-Fi	
		America FCC: 5.180~5.240GHz, 5.745~5.825GHz	
Frequency Range	5GHz	Europe ETSI: 5.180~5.700GHz	
		America FCC:	
Operating Channels		Non-DFS: 36, 40, 44, 48, 149,153,157,161,165	
		DFS: 52, 56, 60, 64, 100, 104, 108, 112, 116, 132, 136, 140	
	5GHz	Europe ETSI:	
		Non-DFS: 36, 40, 44, 48	
		DFS: 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140	
		5GHz channel list may vary in different countries according to their regulations.	
Channel Width	20144- 40144- 00		
		20MHz, 40MHz, 80MHz, 160MHz	
	Transmit: 2400 Mbp		
Data Transmission Rates	Receive: 2400Mbps	5 IUI D GITZ	
	*The estimated tra	ansmission distance is based on the theory. The actual distance may vary in differe	
	environments.		

Times Biolen +-1 15 tor Biolen +-1 150m Biol SCI, 1720      Times Biolen Power    11:8: 1150:116-11600 Biol SCI, 1720      Times Biolen Power    11:8: 1720:1170      Times Biolen Power    11:8: 1720:1170      Times Biolen Power    11:8: 1720:1170      Times Times Control Power    11:8: 1720:1170      Times Control Power    11:8:11:111:11:11:111:111:11:11:11:11:11		
Itau H120 2004-1548hm @MC89Itau H120 2004-1548hm @MC81Itau H120 2004-1548hm @MC81Itau H120 146 4 - 1548hm @MC80Itau H120 146 4 - 1548hm @MC80WH20 Personal (KES) WPA2 Personal (KIP) WPA2 Personal (KIP) AES)WH20 Personal (KES) WPA2 Personal (KIP) WPA2 Personal (KIP) WPA2 Personal (KIP) MPA	Transmission Power	11a/n: 19.5dBm+/- 1.5dbm @MCS7, HT20 17dBm@MCS7, HT40 11ac HT20: 20+/-1.5dBm @MCS8 11ac HT40: 17+/-1.5dBm @MCS9
Ital:    Selition (WCS7      Ital:    -806Bm +/-208m @WH720 MCS8      Ital:    -806Bm +/-208m @WH720 MCS8      Ital:    -806Bm +/-208m @WH720 MCS9      Ital:    -806Bm +/-208m @WH700 MCS9      Ital:    -606Bm +/-208m @WH700 MCS91      Ital:    -606Bm +/-208m @WH20 MCS11      Ital:    -566Bm +/-208m @WH20 MCS11      Ital:    -566Bm +/-208m @WH20 MCS11      Ital:    -566Bm +/-208m @WH20 MCS11      Maragement Functions    WPA2 Personal (ACS), WPA1WPA2 Personal (TKIP, WPA2WPA2 Personal (TKIP)      Maragement Interfaces    Web browser      SMMP v1, v2c    Personal (TKIP)      Part Smart Discovery ultity and NMS controller supported    Personal (TKIP)      Secure Management Interfaces    TLS 11, TLS 12, TLS 13      SMMP v1, v2c    Personal (TKIP)      Part Smart Discovery ultity and NMS controller supported    Personal (TKIP)      Question Modes    Caleway      Receiver Solution    Gateway      Receiver Solution    G	Receiver Sensitivity	11ax HT20: 20+/-1.5dBm @MCS9 11ax HT40: 17 +/- 1.5dBm @MCS9
Ita:::680m +/: 200m @VHT20 MCS9Ita::::680m +/: 200m @VHE20 MCS11Ita::::580m +/: 200m @VHE20 MCS11Ita::::580m +/: 200m @VHE20 MCS11Ita::::::::::::::::::::::::::::::::::::		11a/n: -85dBm @HT20, MCS7 -81dBm @HT40, MCS7
Encryption Security      WPA2 Personal (AES), WPA2 Personal (TKIP), WIPA2 Personal (TKIP), WIPAPAPAPAPAPAPAPAPAPAPAPAPAPAPAPAPAPAPA		11ac: -68dBm +/- 2dBm @VHT80 MCS9 11ax: -61dBm +/- 2dBm @HE20 MCS11 11ax: -58dBm +/- 2dBm @HE40 MCS11
Basic Management Interfaces      Web browser SNMP '1, '20 PLANET Smart Discovery utility and NMS controller supported        Secure Management Interfaces      TLS 1.1, TLS 1.2, TLS 1.3 SNMP '3        Operation Modes      Access Point (default) Gateway Repeater        LAN      Static IPP DHCP Client        WAN      Dynamic IP Dynamic IP DPPDe/IPPTPLZTP        VLAN      IEEE 802.10 VLAN (VID: 1~4094) SSID-to-VLAN mapping to up to 4 SSIDS        Marcess Security      IEEE 802.10 VLAN (VID: 1~4094) SSID-to-VLAN mapping to up to 4 SSIDS        Marcess Security      IEEE 802.10 VLAN (VID: 1~4094) SSID-to-VLAN mapping to up to 4 SSIDS        Max. SSID      4        Max. SSID      4        Max. Wireless Clients      150 (100 is suggested, depending on usage)        Muk Channel Selection S-level Transmit Power Control : Max (100%) Standard (25%) or Min (15%) Client Limit Control : 	Encryption Security	WPA2 Personal (AES) ,WPA2 Personal (TKIP),WPA2 Personal (TKIP+AES) WPA/WPA2 Personal (AES), WPA/WPA2 Personal (TKIP), WPA/WPA2 Personal (TKIP+AES)
Basic Management Interfaces  SIMP V1, v2c PLANET Smart Discovery utility and NMS controller supported    Secure Management Interfaces  TLS 11, TLS 1.3 SIMP v3    Operation Modes  Access Point (default) Gateway Repeater    LAN  Static IP* DHCP Client    WAN  Static IP    Dynamic IP PPPOE/PPTP/L2TP    VLAN  SIDI-0-VLAN mapping to up to 4 SSIDs    Wireless Security  EEE 802.10 VLAN (VID: 1-4094) SSID-0-VLAN mapping to up to 4 SSIDs    Max. SSID  4    Max. SSID  4    Max. Wireless Clients  Suto Charlen Signation (25%) or Min (15%) Client Limit Control : -Max (100%) - Efficient (75%) - Efficient (25%) or Min (15%) Client Limit Control Coverage Threshold    Wireless Roaming  Beardforming Beardforming Beardforming Beardforming Beardforming    Wireless Roaming  EEE 802.11v, and 802.11vr	Management Functions	
Secure Management Interfaces      SNMP v3        Operation Modes      Access Point (default) Gateway Repeater        LAN      Static IP* DHCP Client        WAN      Dynamic IP PPPoE/PPTPI_2TP        VLAN      EEE 802.10 VLAN (VID. 1~4094) SSID-to-VLAN apping to up to 4 SSIDs        Wireless Security      Enable/Disable SSID Broadcast Wireless MAC address filtering User Isolation        Max. Wireless Clients      150 (100 is suggested, depending on usage)        Max. Wireless Clients      51evel Transmit Power Control : -Ishaned (50%) - Efficient (75%) - Enhanced (50%) - Efficient (75%) - Enhanced (50%) - SIndard (25%) or Min (15%) - Client Limit Control coverage Threshold - Wireless Roaming Beamforming Beam	Basic Management Interfaces	SNMP v1, v2c
Operation ModesGaleway RepeaterLANStatic IP/ DHCP ClientWANStatic IP/ Dynamic IP PPP-GE/PPTP/L2TPVLANEles 802.10 VLAN (VID: 1-4094) SSID-to-VLAN maping to up to 4 SSIDsWireless SecurityEnable/Disable SSID Broadcast Wireless SID BroadcastMax. SSID4Max. Wireless Clients150 (100 is suggested, depending on usage)Mireless Clients150 (100 is nuggested, depending on usage)Wireless ClientsSID (100 is suggested, depending on usage)Wireless Clients150 (100 is nuggested, depending on usage)Wireless ClientsSID (100 is suggested, depending on usage)Wireless ClientsSID is client (75%) • Enfanced (50%) • Standard (25%) or Min (15%) Client Limit Control : • Max (100%) • Enfanced (50%) • Standard (25%) or Min (15%) Client Limit Control Coverage Threshold • Wireless Roaming Beamforming Bes Coloring SGR/2 WLAN Partition RTS ThresholdWireless RoamingEEE 802.11K, 802.11v, and 802.11r	Secure Management Interfaces	SNMP v3
WAN  Static IP    Dynamic IP  PPP6E/PPTP/L2TP    VLAN  SID-60-VLAN (VID: 1-4094)    SID-0-VLAN mapping to up to 4 SSIDs    Wireless Security  Enable/Disable SSID Broadcast    Wireless SCIents  150 (100 is suggested, depending on usage)    Max. Wireless Clients  510 (100 is suggested, depending on usage)    Wireless Clients  510 (100 is suggested, depending on usage)    Wireless Clients  510 (100 is suggested, depending on usage)    Wireless Clients  610 (100 is suggested, depending on usage)    Wireless Clients  510 (100 is suggested, depending on usage)    Wireless Clients  610 (100 is suggested, depending on usage)    Wireless Clients  610 (100 is suggested, depending on usage)    Wireless Clients  610 (100 is suggested, depending on usage)    Wireless Clients  610 (100 is suggested, depending on usage)    Wireless Clients  610 (100 is suggested, depending on usage)    Wireless Clients  610 (100 is suggested, depending on usage)    Wireless Clients  610 (100 is suggested, depending on usage)    Wireless Clients  610 (100 is suggested, depending on usage)    Wireless Clients  610 (100 (100 (100 (100 (100 (100 (100 (	Operation Modes	Gateway
WAN      Dynamic IP PPPDE/PPTP/L2TP        VLAN      IEEE 802.10 VLAN (VID: 1~4094) SSID-to-VLAN mapping to up to 4 SSIDs        Wireless Security      Enable/Disable SSID Broadcast Wireless MAC address filtering User Isolation        Max. SSID      4        Max. Wireless Clients      150 (100 is suggested, depending on usage)        Mireless Clients      4        Wireless Clients      4        Wireless Clients      150 (100 is suggested, depending on usage)        Mireless Clients      4        Wireless Clients      150 (100 is suggested, depending on usage)        Wireless Clients      4        Wireless Clients      150 (100 is suggested, depending on usage)        Wireless Clients      5-level Transmit Power Control : • Max (100%) • Efficient (75%) • Enhanced (50%) • Efficient (75%) • Enhanced (50%) • Efficient Limit Control Coverage Threshold *Wi-Fi channel analysis chart Seamless Roaming Beamforming BSS Coloring SSG Clooring SSG Coloring SSG Clooring SSG	LAN	Static IP/* DHCP Client
VLAN    IEEE 802.1Q VLAN (VID: 1~4094) SID-to-VLAN mapping to up to 4 SIDs      Wireless Security    Enable/Disable SSID Broadcast Wireless MAC address filtering User Isolation      Max. SSID    4      Max. Wireless Clients    150 (100 is suggested, depending on usage)      Auto Channel Selection 5-level Transmit Power Control : • Max (100%) • Efficient (75%) • Enhanced (50%) • Efficient (75%) • Enhanced (50%) • Efficient (75%) • Enhanced (50%) • Estandard (25%) or Min (15%)      Client Limit Control Coverage Threshold *Wi-Fi channel analysis chart Seamless Roaming BSS Coloring SGHz WLAN Partition RTS Threshold      Wireless Roaming    Estandard (2.11x, and 802.11r	WAN	Dynamic IP
Wireless SecurityWireless MAC address filtering user IsolationMax. SSID4Max. Wireless Clients150 (100 is suggested, depending on usage)Auto Channel Selection S-level Transmit Power Control : - Max (100%) - Efficient (75%) - Enhanced (50%) - Standard (25%) or Min (15%)Wi-Fi AdvancedClient Limit Control Coverage Threshold Wi-Fi channel analysis chart Seamless Roaming Beamforming BSS Coloring SGHz WLAN Partition RTS ThresholdWireless RoamingIEEE 802.11k, 802.11v, and 802.11r	VLAN	IEEE 802.1Q VLAN (VID: 1~4094)
Max. Wireless Clients150 (100 is suggested, depending on usage)Auto Channel Selection5-level Transmit Power Control :• Max (100%)• Efficient (75%)• Enhanced (50%)• Standard (25%) or Min (15%)Client Limit ControlCoverage Threshold*Wi-Fi channel analysis chartSeamless RoamingBeamformingBSS ColoringSCHz WLAN PartitionRTS ThresholdWireless RoamingEEE 802.11k, 802.11v, and 802.11r		Wireless MAC address filtering
Wi-Fi Advanced    Auto Channel Selection      S-level Transmit Power Control :    • Max (100%)      • Efficient (75%)    • Erhanced (50%)      • Standard (25%) or Min (15%)    Client Limit Control      Coverage Threshold    *Wi-Fi channel analysis chart      Seamless Roaming    Beamforming      BSS Coloring    5GHz WLAN Partition      RTS Threshold    IEEE 802.11v, and 802.11r		4
Wi-Fi Advanced5-level Transmit Power Control : 	Max. Wireless Clients	
Wi-Fi AdvancedCoverage Threshold *Wi-Fi channel analysis chart Seamless Roaming Beamforming BSS Coloring 5GHz WLAN Partition RTS ThresholdWireless RoamingIEEE 802.11k, 802.11v, and 802.11r		5-level Transmit Power Control : Max (100%) Efficient (75%) Enhanced (50%) Standard (25%) or Min (15%)
	Wi-Fi Advanced	Coverage Threshold *Wi-Fi channel analysis chart Seamless Roaming Beamforming BSS Coloring 5GHz WLAN Partition RTS Threshold
Wireless Oos	Wireless Roaming	IEEE 802.11k, 802.11v, and 802.11r
Supports WI-FI Multimedia (WMM)	Wireless QoS	Supports Wi-Fi Multimedia (WMM)

System Management	Setup wizard Remote management through PLANET DDNS/ Easy DDNS Configuration backup and restore Supports UPnP Supports IGMP Proxy Supports PPTP/L2TP/IPSec VPN Pass-through Supports Captive Portal, RADIUS Server/Client (Gateway mode) Diagnostics
Status Monitoring	Dashboard System status/service Statistics Connection status
Event Management	Remote System Log Local Event Log
Self-healing	Supports auto reboot settings per day/hour
Central Management	Applicable controllers: NMS-500, NMS-1000V Wireless Switch: WS-1032P, WS-2864PVR VPN Gateway: VR-300 series, IVR-300 series PLANET CloudViewer App
Standards Conformance	
Regulatory Compliance	FCC Part 15 Class A, CE
Environment	
Operating	Temperature: -40 ~ 75 degrees C Relative humidity: 5 ~ 90% (non-condensing)
Storage	Temperature: -40 ~ 75 degrees C Relative humidity: 5 ~ 90% (non-condensing)

# Dimensions



# **Ordering Information**

IAP-2400AX

Industrial 5GHz 802.11ax 2400Mbps Wireless Access Point with 5 10/100/1000T LAN Ports

# **Related Wireless Products**

IAP-1800AX	Industrial Dual Band 802.11ax 1800Mbps Wireless Access Point with 5 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-1800AX	Dual Band 802.11ax 1800Mbps Outdoor Wireless AP (IP67, 802.3at PoE+, 4 x N-type connectors)
WDAP-C1800AX	Dual Band 802.11ax 1800Mbps Ceiling-mount Wireless Access Point w/802.3at PoE+ and 2 10/100/1000T LAN Ports
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 (EU Type, 802.3at PoE, 3 x 10/100/1000T LAN Ports, 1 x RJ11 Port)
WDAP-850AC	Dual Band 802.11ac 1200Mbps Wave 2 Outdoor Wireless AP (IP67, 802.3at PoE+, 4 x N-type connectors)

# **Related NMS System Products**

NMS-500	Enterprise-class Universal Network Management Controller - 500 nodes, 5 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
NMS-1000V-12	Universal Network Management Controller with 12" LCD Touch Screen 1024 Nodes, 2 10/100/1000T LAN Ports

# Related WS APC System Products

WS-1032P	Wireless AP Managed Switch with 8-Port 802.3at PoE + 2-port 10G SFP+ (120W)
WS-2864PVR	Wireless AP Managed Switch with 24-Port 802.3at PoE + 4-Port 10G SFP+ + LCD Touch Screen and 48VDC Redundant Power

# Related VR APC System Products

VR-300	Enterprise 5-Port 10/100/1000T VPN Security Router
VR-300P	Enterprise 4-Port 10/100/1000T 802.3at PoE + 1-Port 10/100/1000T VPN Security Router
VR-300F	Enterprise 4-Port 10/100/1000T + 1-Port 1000X SFP VPN Security Router
VR-300FP	Enterprise 4-Port 10/100/1000T 802.3at PoE + 1-Port 1000X SFP VPN Security Router
VR-300W5	Wi-Fi 5 AC1200 Dual Band VPN Security Router
VR-300PW5	Wi-Fi 5 AC1200 Dual Band VPN Security Router with 4-Port 802.3at PoE+
VR-300W6	Wi-Fi 6 AX1800 Dual Band VPN Security Router
VR-300PW6	Wi-Fi 6 AX1800 Dual Band VPN Security Router with 4-Port 802.3at PoE+
VR-300W6A	Wi-Fi 6 AX2400 2.4GHz/5GHz VPN Security Router
VR-300PW6A	Wi-Fi 6 AX2400 2.4GHz/5GHz VPN Security Router with 4-Port 802.3at PoE+
IVR-300	Industrial 5-Port 10/100/1000T VPN Security Gateway with Redundant Power
IVR-300W	Industrial 5-Port 10/100/1000T + 802.11ax Wi-Fi VPN Security Gateway

# **Related DIN-rail Power Supplies**

PWR-40-24 (MEAN WELL/MDR-40-24)	40W 24V DC Single Output Industrial DIN-rail Power Supply (-20 ~ 70 degrees C
PWR-60-24 (MEAN WELL/MDR-60-24)	60W 24V DC Single Output Industrial DIN-rail Power Supply (-20 ~ 70 degrees C)
PWR-75-24	75W 24V DC Single Output Industrial DIN-rail Power Supply (-20 ~ 70 degrees C)
(MEAN WELL/NDR-75-24) PWR-75-48	75W 48V DIN-rail Power Supply (NDR-75-48, adjustable 48-56V DC Output)
(MEAN WELL/NDR-75-48) PWR-120-48	
(MEAN WELL/NDR-120-48)	120W 48V DIN-rail Power Supply (NDR-120-48, adjustable 48-56V DC Output)
PWR-240-48 (MEAN WELL/NDR-240-48)	240W 48V DIN-rail Power Supply (NDR-240-48, adjustable 48-56V DC Output)
PWR-480-48 (MEAN WELL/NDR-480-48)	480W 48V DIN-rail Power Supply (NDR-480-48, adjustable 48-56V DC Output)



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