300Mbps 802.11n Wireless In-wall PoE Access Point

TAIWAN EXCELLENCE 2017

All-in-One Manageable Wi-Fi Solution for Hospitality Industry

PLANET WNAP-W2201A enables hospitality industry to build a high-speed wireless network with a maximum data rate of 11n 300Mbps via PLANET AP controller. Furthermore, it conforms to standard 86-type electrical junction box and IEEE 802.3 af/at PoE, suitable for in-wall installation. The WNAP-W2201A has also a built-in RJ11 port for phone pass-through and 100BASE-TX RJ45 port for Ethernet connection to such device as IPTV or laptop, enabling to integrate a hotel network with its all-in-one interface. This definitely helps guests gain good user experience.

Ease of Deployment with PLANET AP Controller

To expand the capability of in-wall AP, PLANET WNAP-W2201A comes with centralized management, enabling the hospitality industry to deploy multiple APs with a single interface of AP controller and reducing repetitive tasks including AP provisioning, AP status monitoring and AP maintenance. In addition, by connecting with PLANET WAPC AP controller series, the WNAP-W2201A comes with PoE alive check and PoE schedule features, which help hoteliers optimize their wireless network within minutes.

Standard Compliant Hardware Interface

- Compliant with IEEE 802.11n wireless technology with data rate of up to 300Mbps
- One 10/100BASE-TX port and one PoE powered device (PD) port
- One RJ11 port for phone line connection
- European 86-type and 75-type wall outlet compatibility

Secure Network Connection

- Advanced security: 64-/128-bit WEP, WPA/WPA2 and WPA-PSK/WPA2-PSK (TKIP/AES encryption), 802.1x
- Supports wireless MAC address filtering control to limit the connected wireless clients

Comprehensive Wireless Advanced Features

- Multiple operation modes including AP (Multi-SSIDs), Client, Repeater/Universal Repeater, WDS Point-to-Point (PtP) and WDS Point-to-Multipoint (PtMP)
- Up to 5 multiple-SSIDs to allow users to access different networks through a single AP
- Supports WMM (Wi-Fi Multimedia) and wireless QoS to enhance the efficiency of multimedia application
- Supports IAPP (Inter Access Point Protocol) wireless roaming to enable clients to roam across multiple APs
- Provides 5-level Transmit Power Control to adapt various environments
- Wireless schedule allows administrators to enforce time-based internet access
- Self-healing (Schedule Reboot) mechanism for reliable connection

Easy Deployment & Centralized Management

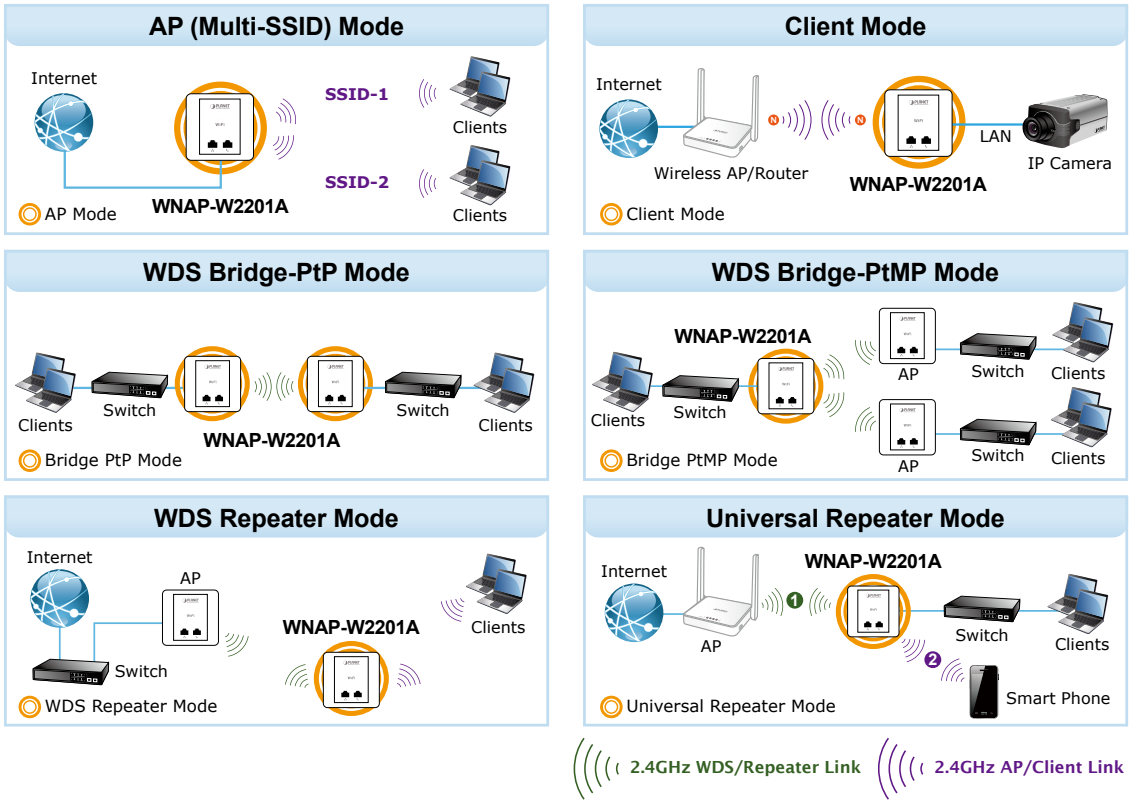
- Supports AP controller to enable administrator to configure and monitor multiple APs simultaneously
- Flexible deployment with standard 802.3af/at PoE/PD supported
- Stylish in-wall design perfectly matches the room decoration
- Step-by-step configuration with intelligent setup wizard and graphical Web-based UI
- Supports SNMP-based management interface
- System status monitoring including associated client list and system log

Suitable for Any Room Installation without Breaking Interior Design

Featuring attractive in-wall design, the WNAP-W2201A can be firmly installed into the wall via the standard 86 x 86 mm or 75 x 75 mm European outlet box, which makes electrical wiring invisible and convenient for room installation without affecting the original interior design. It is ideal for hotels, residences, hospitals and more to establish wireless network.

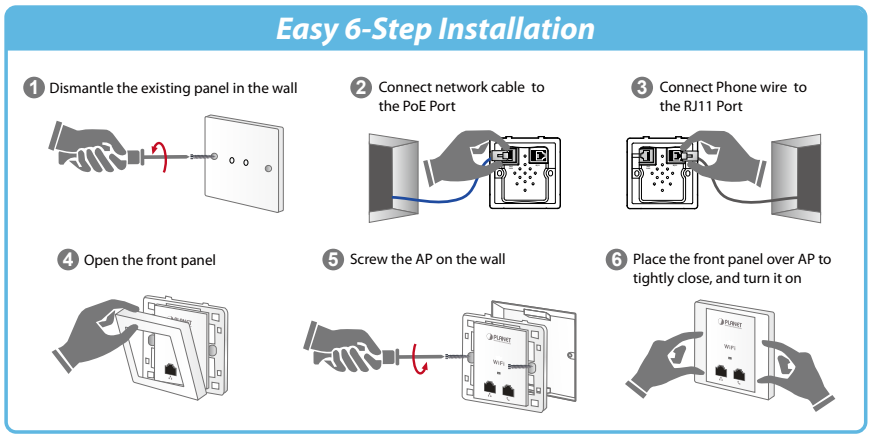
Comprehensive Wireless Operation Mode

The WNAP-W2201A supports multiple wireless communication connectivities such as AP (Multi-SSIDs), Client, Repeater/Universal Repeater, WDS Point-to-Point (PtP) and WDS Point-to-Multipoint (PtMP), allowing users to comprehensively experience various applications.



Easy to Install and Manage

Integrated with RJ11 phone pass-through, RJ45 Ethernet connection and IEEE 802.3af/at PoE PD scheme, the WNAP-W2201A is easy to be installed to any room's existing 86-type or 75-type junction box with only 6 steps. The setup wizard and on-line help can simplify the configuration even for a user who has never experienced in setting up a wireless network. In aspect of centralized management, besides the SNMP, multiple devices can be configured and monitored by PLANET AP controller. The WNAP-W2201A helps the system administrator overcome the difficulties of wireless deployment.



Applications

In-wall Design Ideal for High-density Wireless Network

The WNAP-W2201A is specifically designed for hotels, offering guests with convenient Wireless LAN service. With the standard 86/75 type electrical outlet box installed and PLANET AP controller supported, you don't need to spend extra time and cost to deploy the wireless network. Its compact and all-in-one interface adapted to the room can match any decor and makes wiring invisible. The WNAP-W2201A, with centralized management characteristic and comprehensive operation modes fulfilling any application at hotels and residences, brings the most convenience to system administrators or machine operators. No expensive instruments or complex back-end subscriber managed systems are required for deployment.

Wireless Consumer Applications

Specifications

Model	WNAP-W2201A 300Mbps 802.11n Wireless In-wall Access Point	
Hardware Specifications		
Interface	PoE Port	1 x 10/100Mbps auto MDI/MDI-X RJ45 port (rear panel) ※IEEE 802.3af PoE PD Port
	LAN Port	1 x 10/100Mbps auto MDI/MDI-X RJ45 port
	RJ11 Port	Connect to the telephone through the 4-conductor phone line
PoE	802.3af PoE PD, Class 3	
Antenna	Built-in 3dBi antenna x 2	
Reset Button	Reset button at side panel (Press over 5 seconds to reset the device to factory default)	
LED Indicators	PWR/SYS LED	
Material	Plastic	
Dimensions (W x D x H)	86 x 35 x 86 mm	
Weight	76g	
Power Requirements	802.3af/at PoE, 48-56V DC input, 0.35A (max.)	
Power Consumption	< 10W	
Wireless interface Specifications		
Standard	Compliance with IEEE 802.11b/g/n	
Frequency Band	Europe -- ETSI: 2.412~2.472GHz	
Operating Channel	Europe -- ETSI: 1~13	
Channel Width	20 or 20/40MHz	
Data Transmission Rates	802.11n (HT40):270/243/216/162/108/81/54/27Mbps 135/121.5/108/81/54/40.5/27/13.5Mbps (dynamic) 802.11n (HT20):130/117/104/78/52/39/26/13Mbps 65/58.5/52/39/26/19.5/13/6.5Mbps (dynamic) 802.11g: 54/48/36/24/18/12/9/6Mbps (dynamic) 802.11b: 11/5.5/2/1Mbps (dynamic)	
Transmission Distance	802.11n: up to 70m 802.11g: up to 30m The estimated transmission distance is based on the theory. The actual distance will vary in different environments.	
Max. RF Power	802.11n: 17 ± 2dBm 802.11g: 17 ± 2dBm 802.11b: 18 ± 2dBm	
Receiver Sensitivity	IEEE 802.11b: -92dBm @ 1Mbps; -85dBm @ 11Mbps, PER < 8% IEEE 802.11g: -88dBm @ 6Mbps; -73dBm @ 54Mbps, PER <10% IEEE 802.11n: -90dBm @ MCS8; -70dBm @ MCS15, PER <10%	
Data Rate	IEEE 802.11b: 1/2/5.5/11Mbps IEEE 802.11g: 6/9/12/18/24/36/48/54Mbps IEEE 802.11n: 300 Mbps in 40MHz mode/150Mbps in 20MHz mode	
TX Power	Provides 5-level Tx Power Control (100%, 70%, 50%, 35%, 15%)	
Wireless Management Features		
Operation Mode	• Standalone AP • Managed AP	
Wireless Mode	• AP (Multiple-SSIDs) • Client • Repeater (WDS+AP) • Universal Repeater (AP+Client) • WDS PtP Bridge • WDS PtMP Bridge	
Encryption Security	• WEP (64-/128-bit) encryption security • WPA/WPA2 (TKIP/AES) • WPA-PSK/WPA2-PSK (TKIP/AES) • 802.1x RADIUS Authentication	
Wireless Security	Wireless MAC address filtering (up to 20 entries) Supports WPS (Wi-Fi Protected Setup) SSID broadcast and hide	
Wireless Advanced	Supports WMM (Wi-Fi Multimedia) for better data transmission of video or on-line demand Supports wireless schedule Multiple SSIDs: up to 5 Wireless Isolation: Enables it to isolate each connected wireless client of a BSSID from communicating with each other IAPP (Inter Access Point Protocol): 802.11f wireless roaming Provides wireless statistics, max. associated station number	
Max. Supported Clients	Wired: 253 2.4GHz Wireless: 32	

LAN	Built-in DHCP server supporting static IP address distribution Supports static IP and dynamic IP Supports UPnP Supports 802.1d Spanning Tree
System Management	Web-based (HTTP) management interface Supports SNTP synchronization Easy firmware upgrade via HTTP/TFTP (through AP controller) Easily locate deployed APs through the LED control Supports SNMP management, LED On/Off control, Schedule Reboot Supports Smart Discovery Utility, System Log Supports WAPC series of AP controllers for central management
Max. WDS Peers	8
IEEE Standards	IEEE 802.11n (2T2R, up to 300Mbps) IEEE 802.11g IEEE 802.11b IEEE 802.11i IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3x flow control
Other Protocols and Standards	CSMA/CA, CSMA/CD, TCP/IP, DHCP, ICMP, SNTP
Environment & Certification	
Temperature	Operating: -10 ~ 50 degrees C Storage: -40 ~ 70 degrees C
Humidity	Operating: 10 ~ 90% (non-condensing) Storage: 5 ~ 90% (non-condensing)
Regulatory	CE, RoHS

Ordering Information

WNAP-W2201A	300Mbps 802.11n Wireless In-wall PoE Access Point

Related Wireless Products

WDL-U601AC	433Mbps 802.11AC Dual Band Wireless USB Adapter
WDAP-C7200AC	1200Mbps 802.11ac Dual Band Ceiling-mount Wireless Access Point
WDAP-W7200AC	1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point

* To have the best performance and wireless connection, matching it with the above-related products is recommended.

Related PoE Products

WAP-1232HP	Wireless AP Controller with 8-Port 802.3at PoE+
WAPC-2864HP	Wireless AP Controller with 24-Port 802.3at PoE + 4-Port 10G SFP+
POE-152	IEEE 802.3af Power Over Ethernet Injector (End-span)
POE-2400G	24-Port Gigabit IEEE 802.3af Power over Ethernet Injector Hub
WGSD-10020HP	L2+ 8-Port 10/100/1000T + 2-Port 100/1000X SFP Managed 802.3at PoE Switch
WGSW-24040HP/ WGSW-24040HP4	24-Port 10/100/1000Mbps 802.3at PoE+ Managed Switch with 4 Shared SFP Interfaces

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