

# Product Specifications

300Mbps 802.11n In-wall Wireless Access Point

## WNAP-W2200UE

Version 1.0

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Change History:

Revision	Date	Author	Change List
1.0	2018/01/25	Solo	Preliminary

Author	Solo	Editor:	Solo
Reviewed by:	Miki	Approved by:	Kent

## 1. PRODUCT DESCRIPTION

### All-in-One Manageable Wi-Fi Solution for Hotel Industry

PLANET WNAP-W2200UE enables the hospitality industry to build a high-speed wireless network with **802.1Q VLAN** and **PLANET AP controller**. Furthermore, it conforms to **standard 86-type** electrical junction box and **IEEE 802.3af/at PoE**, suitable for in-wall installation enabling to integrate the hotel network with its all-in-one interface. The WNAP-W2200UE also provides stable wireless signal that makes access to internet viable in regard to whatever nature of work you are into.

### Easy Deployment with PLANET AP Controller

To expand the capability of in-wall AP, PLANET WNAP-W2200UE 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 AP controller, PLANET WNAP-W2200UE helps hoteliers optimize their wireless network within minutes.

### Suitable for Any Room Installation without Spoiling Interior Design

Featuring attractive in-wall design, the WNAP-W2200UE can be firmly installed into the wall via the standard **86 x 86 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 any kind of wireless network.

### Comprehensive Wireless Operation Modes

The WNAP-W2200UE supports multiple wireless communication connectivities such as **AP**, **Gateway**, **Repeater**, **WDS Point-to-Point (PtP)** and **WDS Point-to-Multipoint (PtMP)**, allowing users to comprehensively experience various applications.

### Easy to Use Wi-Fi and USB Charger

Having a good night sleep is what we need in the hotel. It is easy to disable the Wi-Fi signal and LED on the front panel of the WNAP-W2200UE. When you don't need to use wireless LAN, just press the button to close the Wi-Fi and LED. To provide better services for travelers, the WNAP-W2200UE comes with a built-in USB 2.0 charger whose output of 5V DC power can charge any USB compliant mobile devices, e.g., cell phones, iPads, and other handheld devices. Thus, the WNAP-W2200 brings convenience to pedestrians, travelers and other users without having to worry about forgetting to carry an AC adapter.

## 2. PRODUCT FEATURES

- **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
  - USB charger port for charging most of mobile devices easily
  - European 86-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
  - Supports 802.1Q VLAN and SSID-to-VLAN mapping
  - Supports IP/Port/MAC address/URL filtering, DoS, SPI Firewall
  - Supports DMZ and port forwarding
  - Bandwidth control per IP address to increase network stability
  
- **Multiple Operation Modes and Wireless Features**
  - Multiple operation modes: AP, Gateway, Repeater, WDS
  - 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
  
- **Easy Deployment and Management**
  - 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
  - Supports PLANET DDNS/Easy DDNS

### 3. PRODUCT SPECIFICATIONS

#### 3.1 MAIN COMPONENTS

<b>CPU</b>	Qualcomm QCA9531
<b>RAM</b>	64MB SDRAM
<b>Flash</b>	16MB

#### 3.2 FUNCTIONAL SPECIFICATIONS

<b>Product</b>	<b>WNAP-W2200UE</b> 300Mbps 802.11n In-Wall Wireless Access Point with USB Charger		
<b>Hardware Specifications</b>			
<b>Interfaces</b>	LAN	1 x 10/100BASE-TX RJ45 port Auto-negotiation and auto MDI/MDI-X	
	PoE Port	1 x 10/100Mbps auto MDI/MDI-X RJ45 port (rear panel) ※ IEEE 802.3af/at PD port	
	USB Port	USB 2.0, Type A, 5V DC, 0.5A output	
<b>Antennas</b>	Gain	2 x 2dBi antenna	
<b>Button</b>	Reset button (Press over 15 seconds to reset the device to the factory default)		
<b>LED Indicators</b>	Wireless		
<b>Dimensions (Φ x H)</b>	86 x 35 x 86 mm		
<b>Weight</b>	106 ±5g		
<b>Power Requirements</b>	48V 0.5A, IEEE 802.3af/at PoE+		
<b>Power Consumption</b>	< 5W		
<b>Mounting</b>	In-wall mount		
<b>Wireless Interface Specifications</b>			
<b>Standard</b>	IEEE 802.11b/g/n 2.4GHz		
<b>Media Access Control</b>	CSMA/CA		
<b>Data Modulation</b>	Transmission/emission type: DSSS/OFDM Data modulation type: OFDM: BPSK, QPSK, 16-QAM, 64-QAM, DBPSK, DQPSK, CCK		
<b>Frequency Range</b>	FCC: 2.412~2.462GHz ETSI: 2.412~2.472GHz		
<b>Operating Channels</b>	FCC: 1~11 ETSI: 1~13		
<b>RF Power</b>	< 20dBm (EIRP)		
<b>Receive Sensitivity</b>	<b>Network Mode</b>	<b>Data Rate</b>	<b>Receive Sensitivity (dBm)</b>
	<b>2.4GHz</b>		
	802.11b	1Mbps	-88
		11Mbps	-85
	802.11g	6Mbps	-88
54Mbps		-68	

	802.11n	MCS0/MCS8	-68
		MCS7/MCS15	-68
<b>Software Features</b>			
<b>LAN</b>	Static IP		
	Supports IP-MAC binding		
<b>Wireless Mode</b>	Access Point		
	Gateway		
	Repeater		
	WDS (AP/Bridge/Station)		
<b>Channel Width</b>	20MHz, 40MHz,		
<b>Encryption Security</b>	64-/128-bit WEP, WPA, WPA-PSK, WPA2, WPA2-PSK, 802.1X		
<b>Wireless Security</b>	Enable/Disable SSID Broadcast		
	Wireless MAC address filtering		
	User Isolation		
<b>Wireless Advanced</b>	WMM (Wi-Fi Multimedia): 802.11e Wireless QoS		
	Multiple SSIDs: up to 4		
	Wireless Isolation: Enables to isolate each connected wireless client from communicating with each other		
	Provides wireless statistics		
<b>Max. SSIDs</b>	4		
<b>Max. Clients</b>	64 (20 is suggested, depending on usage)		
<b>Max. WDS Peers</b>	4		
<b>Wireless QoS</b>	Supports Wi-Fi Multimedia (WMM)		
<b>Wireless Advanced</b>	Auto channel selection		
	5-level transmit power control (100%, 75%, 50%, 25%, 12.5%)		
	Client limit control, coverage threshold		
	Wi-Fi channel analysis chart		
<b>Status Monitoring</b>	Device status, wireless client list		
	PLANET Smart Discovery		
	DHCP client table		
	System Log supports remote syslog server		
<b>VLAN</b>	IEEE 802.1Q VLAN (VID: 3~4094)		
	SSID-to-VLAN mapping to up to 4 SSIDs		
<b>Self-healing</b>	Supports auto reboot settings per day/hour		
<b>System Management</b>	Supports PLANET Hardware AP Controller/ Software AP Controller Applicable controllers[1]: WAPC-500, SAPC		
	Remote management through PLANET DDNS/Easy DDNS		
	Configuration backup and restore		
	Supports UPnP		
	Supports IGMP Proxy		

	Supports PPTP/L2TP/IPSec VPN pass-through
	SNMP v1/v2c/v3 support, MIB I/II, Private MIB
<b>Remarks</b>	1. ^ the feature will be supported through firmware/system upgrade.
<b>Environment &amp; Certification</b>	
<b>Temperature</b>	Operating: -20 ~ 55 degrees C Storage: -40 ~ 70 degrees C
<b>Humidity</b>	Operating: 10 ~ 90% (non-condensing) Storage: 5 ~ 95% (non-condensing)
<b>Regulatory</b>	CE, RoHS

### 3.3 Physical Specifications

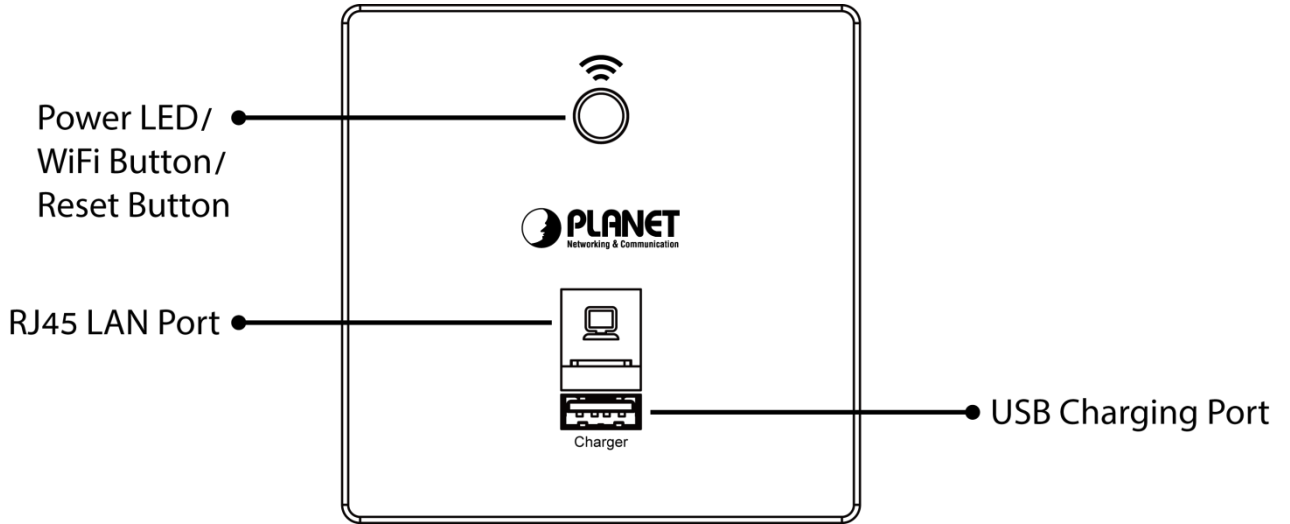
**Dimensions**

86 x 35 x 86 mm (W x D x H)

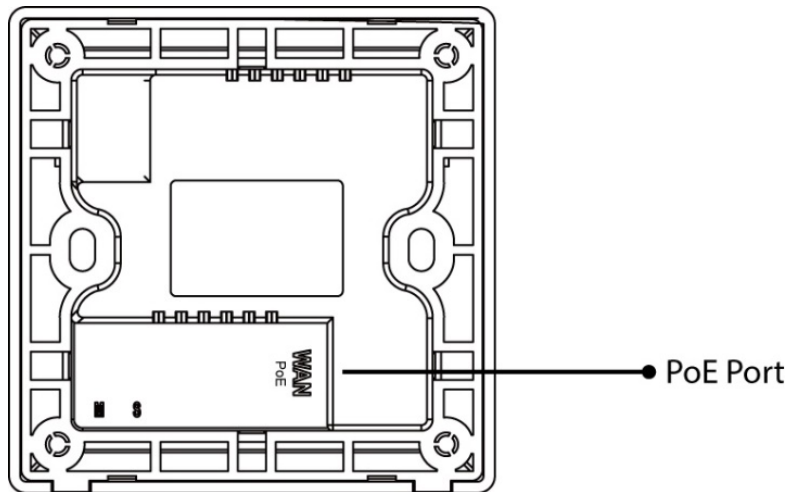
**Weight**

106 ±5g

**Front Panel**



**Rear Panel**



**LED definition**

LED	STATE	FUNCTION
Wi-Fi	On	Press the button one second to turn Wi-Fi on
	Off	Press the button one second to turn Wi-Fi off

#### Button definition

Object	Description
Reset	Press the Reset button for over 15 seconds and then release it to restore system to the factory default settings.

#### H/W Interface definition

Object	Description
PoE Port (802.3af/at PoE+)	10/100bps RJ45 port, auto MDI/ MDI-X Connect PoE port to the IEEE 802.3af/at PoE+ switch to power on the device.
LAN Port	10/100Mbps RJ-45 port, auto MDI/ MDI-X Connect this port to the network equipment.
USB Port	USB 2.0, Type A, 5V DC/0.5A output Connect this port to charge the mobile device.

### 3.4 Environmental Specifications

#### Temperature

Operating: -20 ~ 55 degrees C

Storage: -40 ~ 70 degrees C

#### Humidity

Operating: 10 ~ 90% (non-condensing)

Storage: 5 ~ 95% (non-condensing)

### 3.5 Regulatory Compliance

CE, RoHS

### 3.6 BASIC PACKAGING

- WNAP-W2200UE x 1
- Screws x 2
- Quick Installation Guide x 1

### 3.7 PACKAGING INFORMATION

Dimensions (W x D x H)	120 x 110 x 65 mm
Weight	181 ±5g



## APPENDIX: Default Settings

<b>Device Name</b>	WNAP-W2200UE
<b>Operation Mode</b>	AP mode
<b>IP Address</b>	192.168.1.253
<b>Subnet Mask</b>	255.255.255.0
<b>DHCP</b>	Disabled
<b>Default SSID</b>	PLANET_2.4G
<b>Default Channel</b>	6
<b>Default Channel List</b>	FCC: 1~11 ETSI: 1~13
<b>Default Channel Bandwidth</b>	20MHz
<b>Default Security</b>	Disable
<b>Default TX Power Percentage</b>	100
<b>WMM Capability</b>	Enable
<b>SSID Broadcast</b>	Enable
<b>User Isolation</b>	OFF
<b>Time Zone</b>	FCC: (GMT+8:00) ETSI: (GMT)