



WAP-8221 Version: 1

## AC750 Dual Band PoE Wireless Access Point, In-Wall Mount, Controller Managed

LevelOne new access point, the WAP-8221, can be used to create wireless networks that are not only technically perfect but also visually perfect. Since there is almost not to see with the wireless access point hardware: The wireless access point - just like a power outlet - is simply mounted on the wall. hotels and guesthouses can carefully set up WLANs for guests in each room. It can achieve a combined speed of up to 750 Mbps. The WAP-8221 operates in the 2.4 and 5 GHz bands and can also be used as part of a managed network when controlled by the LevelOne WAC-2000 / WAC-2003 WLAN controller. There is an RJ45 socket for the network cable on the back and front. LevelOne WAP-8221 also offers PoE, removing the need for an external power supply, which makes it easy to install. A fast, versatile and secure access point for a wide variety of network requirements.

### Key Features

- Share your wireless network up to 750Mbps
- Compatible with IEEE 802.11a/b/g/n/ac wireless standards
- Dual band technology reduces interference, providing reliable connections
- IEEE 802.3af PoE compliant to simplify deployment and installation
- Multi-operation modes to suit different wireless applications
- Provides up to 8 SSIDs to separate network traffic and enhance security
- Wall-mounted design fits standard 86x86mm socket

### Compatible With



#### **WAC-2000**

Gigabit Wireless LAN Controller



#### **WAC-2003**

Gigabit Wireless LAN Controller, Quad WAN

## Specifications

### System Specifications

#### Standards:

IEEE 802.3 10-BASE-T, Ethernet  
IEEE 802.3u 100-BASE-TX, Fast Ethernet  
IEEE 802.11e Wi-Fi Multimedia (WMM)  
IEEE 802.3x Ethernet Flow Control  
IEEE 802.11i Wi-Fi Protected Access (WPA2)  
IEEE 802.11a, 802.11b, IEEE 802.11g, IEEE 802.11n 802.11ac Wireless Networking  
IEEE 802.3 af Power over Ethernet

#### Port:

1 x 10/100Mbps WAN Port  
1 x 10/100Mbps LAN Port

#### Button/Knob:

1 x WIFI SSID Broadcast ON/OFF , Reset to Defaults

#### Indicator:

Power  
System status

#### Power Input:

Power over Ethernet (IEEE802.3af) 48 VDC

#### Power Consumption:

<10W

### Wireless

#### Operating Mode:

Gateway Mode  
Repeater Mode  
WISP Mode  
AP Mode

#### Encryption:

WEP Encryption-64/128 bit; WPA/WPA2 Personal (WPA-PSK using TKIP or AES); WPA/WPA2 Enterprise (WPA-EAP using TKIP)

#### Receive Sensitivity(dBm):

##### 2.4 GHz Receive Sensitivity:

802.11b / 1Mbps / RX Sensitivity : -94 (dBm)  
802.11b / 11Mbps / RX Sensitivity : -85 (dBm)  
802.11g / 6Mbps / RX Sensitivity : -88 (dBm)  
802.11g / 54Mbps / RX Sensitivity : -72 (dBm)  
802.11n HT20 / MCS0 / RX Sensitivity : -88 (dBm)  
802.11n HT20 / MCS7 / RX Sensitivity : -70 (dBm)

##### 5.8 GHz Receive Sensitivity:

802.11a HT20 / 6Mbps/ RX Sensitivity : -90 (dBm)  
802.11a HT20 / 54Mbps/ RX Sensitivity : -72 (dBm)  
802.11n HT20 / MCS0 / RX Sensitivity : -90 (dBm)  
802.11n HT20 / MCS7 / RX Sensitivity : -70 (dBm)  
802.11ac VHT80 / MCS0 / RX Sensitivity : -86 (dBm)  
802.11ac VHT80 / MCS9 / RX Sensitivity : -60 (dBm)

#### Wireless Channels:

##### 2.4GHz:

Ch.1 ~ 11 USA  
Ch.1 ~ 13 EU

##### 5.8GHz:

Ch.36~64 , 100~128 , 132~140 , 149~165 USA  
Ch.36~64 , 100~128 , 132~140 EU

**EIRP(dBm):**

2.4GHz/5GHz EIRP <20dBm

**Antenna:**

2.4GHz: 2dBi inside Omni Antenna x2

5.8GHz: 2dBi inside Omni Antenna x1

**Frequency Band:**

2.4 ~ 2.4835 GHz

5.180 ~ 5.825GHz

**Modulation:**

OFDM = BPSK,QPSK,16-QAM,64-QAM;DSSS = DBPSK,DQPSK,CCK

**Data Transfer Rate:**

802.11ac: 433.3 Mbps

802.11n: 300 Mbps

802.11g: 54 Mbps

802.11b: 11 Mbps

## Features

**General:**

Multi-SSID: 8 SSIDs (4 SSID for 2.4G, 4 SSID for 5.8G)

**PoE:**

IEEE 802.3af

**Security:**

SSID Broadcast On/Off

**Management:**

WEB interface

**QoS:**

802.11e WMM Supported

**Ease of Use:**

Web-based GUI with Quick Installation Wizard

Web-based (HTTP) firmware upgrade

## Performance

**Number of Clients:**

Maximum:128

Recommend:50

## Environment

**Operating Temperature (°C):**

-20°C~50°C

**Operating Humidity (Non-condensing):**

10%~90%

**Storage Temperature (°C):**

-40°C~70°C

**Storage Humidity (Non-condensing):**

5%~95%

**Installation:**

In-Wall Mount

## Physical Specifications

Dimensions (W x D x H mm):

86 x 86 x 31 mm

Diameter:

86mm

Weight (g):

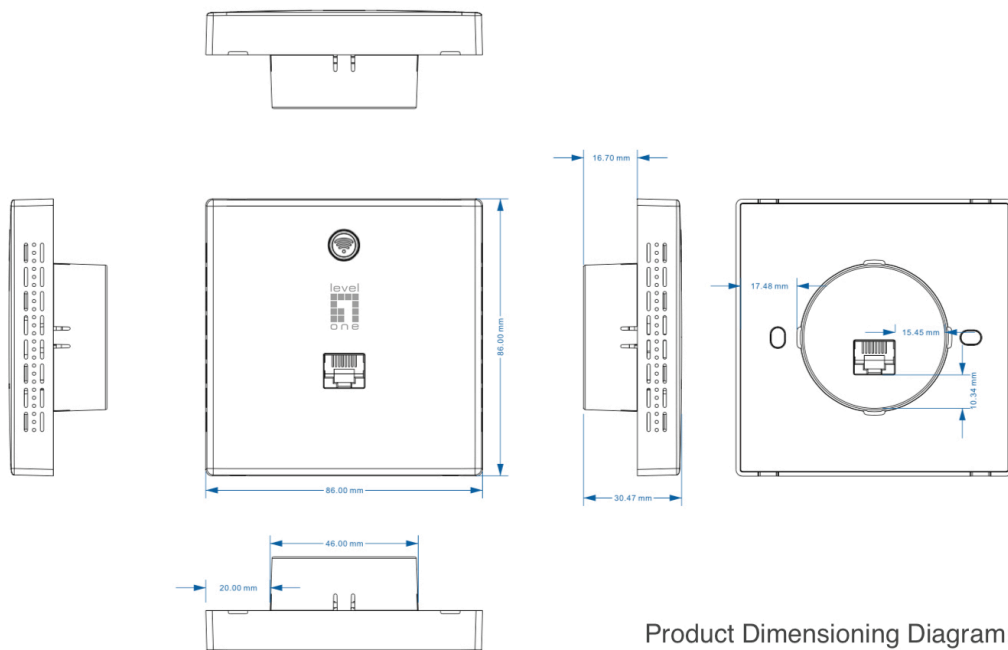
110g

## Approval and Compliance

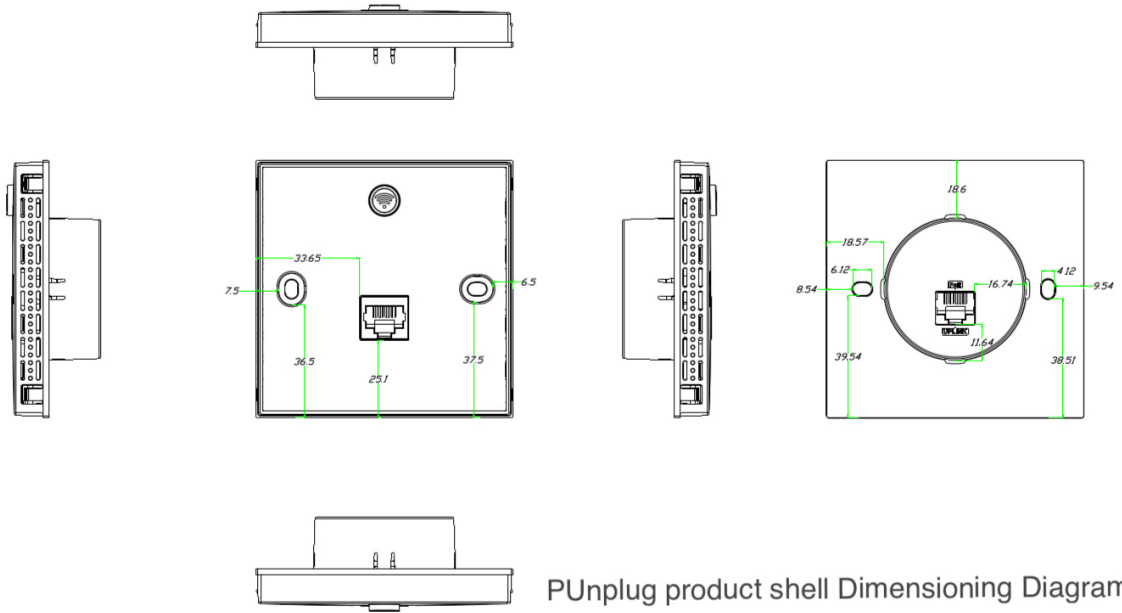
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CE

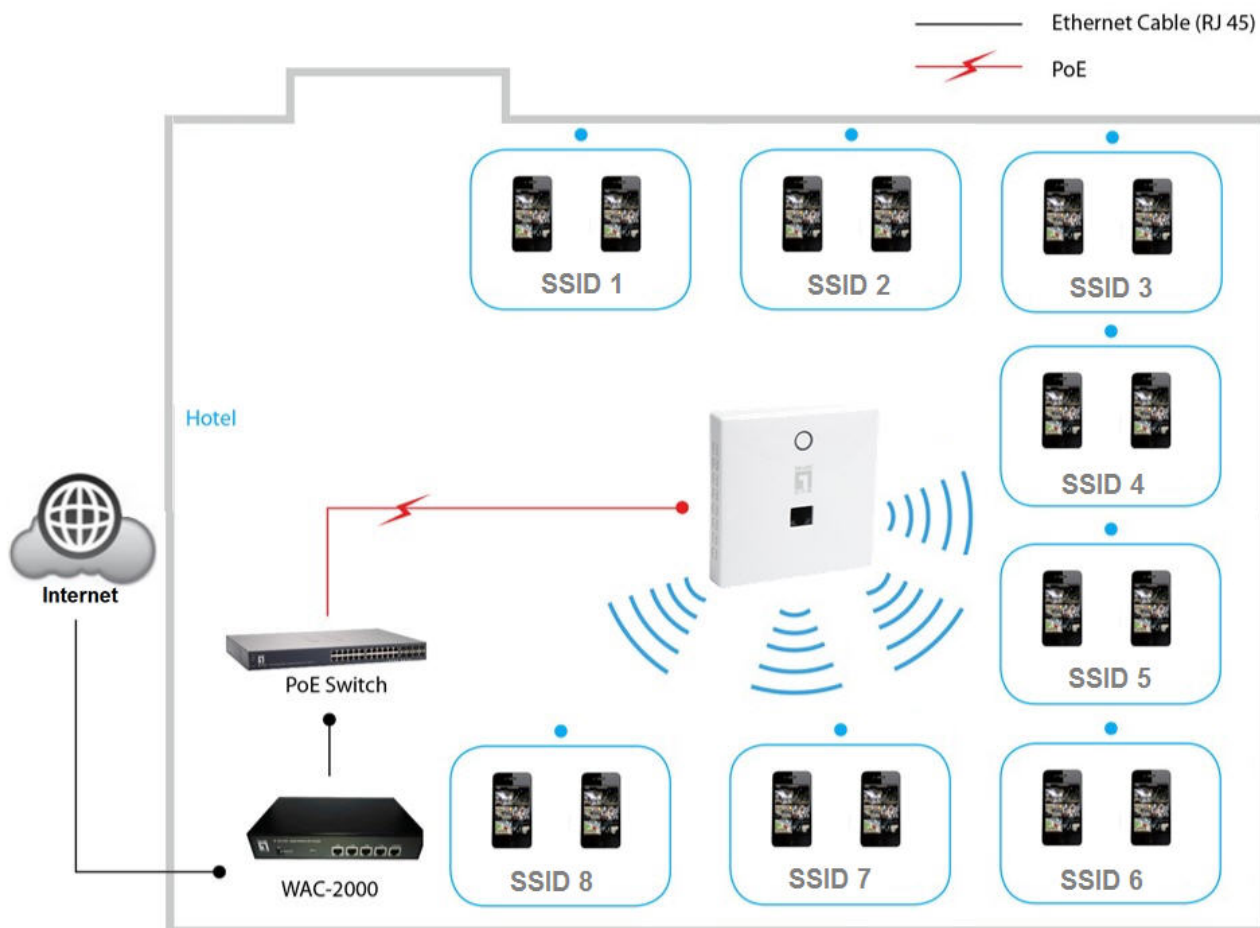
## Diagram



Product Dimensioning Diagram:



PUntplug product shell Dimensioning Diagram:



## Order Information

WAP-8221

## Package Contents

WAP-8221

Screw Kit

Quick Installation Guide

Resource CD (User Manual, QIG)

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