



WAP-8121 Version: 1

## AC750 Dual Band PoE Wireless Access Point, Ceiling Mount, Controller Managed

"The LevelOne WAP-8121 is a sophisticated, fast dual-band managed wireless access point, offering up to 450 Mbps on the 5 GHz band and up to 300 Mbps on the 2.4 GHz band. It provides a combined throughput of 750 Mbps using 802.11ac standards. The advanced wireless access point also supports all legacy wireless devices on 802.11a/b/g/n. WAP-8121 performs automatic testing and assigns channels dynamically to detect conflicts and channel interference, constantly optimising performance in the background. The device runs on PoE, negating the need for electrical wiring. Central management allows for adjustments to the RF (Radio Frequency) (according to )the environment, further optimising the performance of the network by adjusting and balancing workloads as well as detecting areas of weak reception. it provides WEP, WPA-PSK, WPA-TKIP, and WPA2 AES secured connectivity for securing the Wireless Area Network and to prevent unauthorized access. The device supports up to four(Eight) SSIDs allowing unique configuration settings for different network regions. The sophisticated and stylish access point mounts on a ceiling, providing a low-profile, highly effective networking solution."



### Key Features

- Compatible with IEEE 802.11a/b/g/n/ac wireless standards
- Multi-operation modes to suit different wireless applications
- IEEE 802.3af PoE compliant to simplify deployment and installation
- Provides up to 8 SSIDs to separate network traffic and enhance security
- Auto Channel Selection for low interference band



## Compatible With



**WAC-2000**  
Gigabit Wireless LAN Controller

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## Specifications

### System Specifications

#### Standards & Protocols:

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, IEEE 802.11b, IEEE 802.11g, IEEE 802.11n, IEEE 802.11AC Wireless Networking  
IEEE 802.3 af Power over Ethernet

#### Connectors and Cabling:

1x 10/100Mbps Base-TX PoE Port  
1x 10/100Mbps Base-TX Port

#### Button/Knob:

Reset button

#### Indicator:

Power  
WiFi

#### Power Input:

Power over Ethernet (IEEE802.3af) 48 VDC  
Power supply DC12V / 1.5A"

#### Power Consumption:

15W

### Wireless

#### Operating Mode:

Wireless AP/Gateway/WiFi Repeater/WISP

#### Encryption:

WEP 64/128/152-bit Web share key encryption  
WPA, WPA2 128-bit TKIP/AES encryption  
WPA, WPA2-PSK TKIP/AES encryption

#### Receive Sensitivity(dBm):

##### 2.4GHz:

802.11n (20MHZ): Range (-70) dBm  
802.11n (40MHZ): Range (-68 ) dBm  
802.11g: Range (-72) dBm  
802.11b: Range (-95) dBm

##### 5GHz:

802.11ac (80MHZ): Range (-62) dBm  
802.11ac (40MHZ): Range (-65) dBm  
802.11ac (20MHZ): Range (-68) dBm  
802.11n (40MHZ): Range (-68 ) dBm  
802.11n (20MHZ): Range (-70) dBm  
802.11a: Range (-72) dBm

**Channel:**

Ch.1 ~ 11 USA

Ch.1 ~ 13 EU

Ch.36~165 Country

**EIRP(dBm):**

(Controllable for different country regulations)

**5GHz:**

802.11a 6Mbps: 23dBm

802.11a 54Mbps: 22dBm

802.11ac HT20: 20dBm

802.11ac HT40: 20dBm

802.11ac HT80: 18dBm

802.11n HT20: 20dBm

802.11n HT40: 20dBm

**2.4GHz:**

802.11b 1Mbps: 26dBm

802.11g 54Mbps: 23dBm

802.11n HT20: 23dBm

802.11n HT40: 22dBm

**Antenna:**

3x 3dBi(3\*5dBi) inside Omni Antenna

**Frequency Band (GHz):**

2.4 ~ 2.4835 GHz

5.15 ~ 5.35 GHz

5.46 ~ 5.72 GHz

5.725~ 5.825 GHz

**Modulation:**

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

**Data Transfer Rate:**

802.11AC:433.3~130Mbps

802.11n: 300 ~ 78 Mbps

802.11g: 54 ~ 6 Mbps

802.11b: 11 ~ 1 Mbps

802.11a/g:54~6Mbps

## Features

**General:**

2.4GHz: Multi-SSID: 4 SSIDs 5GHz: Multi-SSID: 4 SSIDs

**PoE:**

IEEE 802.3af

**Security:**

SSID Broadcast On/Off

**Management:**

Web-Based GUI Configuration

**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:80  
Recommend:64

### Environment

Temperature (°C):  
Operating: -20°C ~ 50°C  
Storage: -40°C ~ 70°C

Humidity (Non-condensing):  
Storage: 5 ~ 90%  
Operating: 10 ~ 90%

### Physical Specifications

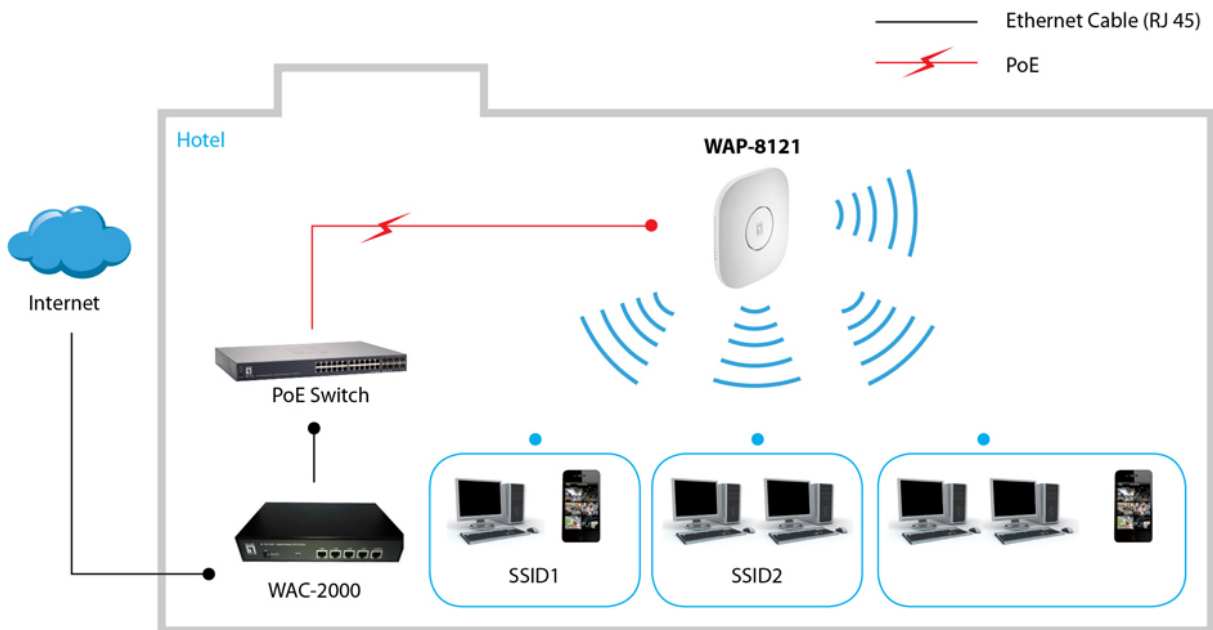
Dimensions (W x D x H mm):  
189\*189\*38.5mm

Weight (g):  
326

### Approval and Compliance

EMI/EMS:  
CE/FCC

### Diagram



### Order Information

WAP-8121

### Package Contents

WAP-8121  
RJ45 Network Cable  
Quick Installation Guide

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