



WAP-8123 Version: 1

## AC1200 Dual Band PoE Wireless Access Point, Ceiling Mount, Controller Managed

LevelOne's WAP-8123 is a managed, dual-band wireless access point, Supply 802.11ac Wave 2 MU-MIMO (Multi-User Multiple-Input Multiple-Output), allows multiple devices to get high- bandwidth Wi-Fi signal at the same time, distributing data more efficiently. capable of a combined speed of up to 1200 Mbps. The device runs on 2.4 and 5 GHz frequencies, and can be used as part of a managed network when controlled by the LevelOne WAC-2000/WAC-2003 Wireless LAN Controller. LevelOne WAP-8123 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

- Compatible with IEEE 802.11a/b/g/n/ac Wave 2 wireless standards
- MU-MIMO technology greatly enhances WLAN performance for all clients
- Provides wireless speeds of up to 300Mbps (2.4GHz) / 867Mbps (5GHz)
- Dual power support: 12V DC/PoE (IEEE 802.3at)
- Multi-operation modes to suit different wireless applications
- Auto Channel Selection for low interference band
- Provides up to 8 SSIDs to separate network traffic and enhance security
- High power and receiver sensitivity designed to boost your signal coverage and link speed

### 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/b/g/n/ac  
IEEE 802.11ac Wave 2 MU-MIMO  
IEEE 802.3at Power over Ethernet  
IEEE 802.3az

#### Port:

1x 10/100/1000Mbps WAN port  
1x 10/100/1000Mbps LAN port  
1x 12V DC Port

#### Button/Knob:

1x Reset Button

#### Indicator:

Power, System status

#### Power Input:

Power over Ethernet (IEEE802.3at) 48VDC  
External power adapter: 12V/1.5 A (not included)

#### Power Consumption:

<30W

### Wireless

#### Operating Mode:

Gateway Mode  
Repeater Mode  
AP Mode  
WISP Mode

#### Encryption:

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

#### Receive Sensitivity(dBm):

##### 2.4 GHz Radio :

802.11b / 1Mbps / RX Sensitivity : -94 (dBm)  
802.11b / 11Mbps / RX Sensitivity : -85 (dBm)  
802.11g / 6Mbps / RX Sensitivity : -90 (dBm)  
802.11g / 54Mbps / RX Sensitivity : -72 (dBm)  
802.11n HT20 / MCS0 / RX Sensitivity : -88 (dBm)  
802.11n HT20 / MCS7 / RX Sensitivity : -70 (dBm)  
802.11n HT40 / MCS0 / RX Sensitivity : -86 (dBm)  
802.11n HT40 / MCS7 / RX Sensitivity : -68 (dBm)

##### 5.8 GHz Radio :

802.11a HT20 / 6Mbps/ RX Sensitivity : -90 (dBm)  
802.11a HT20 / 54Mbps/ RX Sensitivity : -72 (dBm)  
802.11n HT20 / MCS0 / RX Sensitivity : -88 (dBm)  
802.11n HT20 / MCS7 / RX Sensitivity : -70 (dBm)  
802.11n HT40 / MCS0 / RX Sensitivity : -86 (dBm)  
802.11n HT40 / MCS7 / RX Sensitivity : -68 (dBm)  
802.11ac VHT80 / MCS0 / RX Sensitivity : -85 (dBm)  
802.11ac VHT80 / MCS9 / RX Sensitivity : -58 (dBm)

**Wireless Channels:**

2.4 GHz :

Ch.1 ~ 11 USA

Ch.1 ~ 13 EU

5.8 GHz :

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

Ch.36~64 , 100~128 , 132~140 EU

**EIRP(dBm):**

2.4GHz / 5GHz :

<20dBm (Standard)

2.4GHz :

<29dBm ( high power version by firmware upgraded)

5GHz:

<24dBm ( high power version by firmware upgraded)

**Antenna:**

2x 2.4 GHz Build in 5dBi MIMO Antenna

2x 5.8 GHz Build in 5dBi MIMO Antenna

**Frequency Band:**

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, 128-QAM, 256-QAM

DSSS = DBPSK, DQPSK, CCK

**Data Transfer Rate:**

802.11ac : 866.7Mbps

802.11n: 300 Mbps

802.11g: 54 Mbps

802.11b: 11 Mbps

## Features

**General:**

Multi-SSID: 8 SSIDs (2.4GHz\*4 SSIDs + 5.8GHz\*4 SSIDs)

**PoE:**

IEEE 802.3at

**Security:**

SSID Broadcast On/Off

Tag VLAN

**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: 100

## Environment

**Operating Temperature (°C):**

-30°C~55°C

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

10 ~ 90%

**Storage Temperature (°C):**

-40°C~70°C

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

5%~95%

**Installation:**

Ceiling Mount

## Physical Specifications

**Dimensions (W x D x H mm):**

198 x 198 x 28 mm

**Weight (g):**

521g

## Approval and Compliance

**EMI/EMS:**

CE

**Safety:**

FCC

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## Order Information

WAP-8123

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## Package Contents

WAP-8123

Screw Kit

RJ45 Network Cable

Quick Installation Guide

Resource CD (User Manual, QIG)

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