

# WAB-8021 AX3000 Dual Band Wi-Fi 6 Outdoor PoE Wireless Access Point, Omni-directional

## Product Images

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## Short Description

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- Provides wireless speeds of up to 3000Mbps(574Mbps in 2.4GHz/2401Mbps in 5GHz)
- OFDMA and MU-MIMO support
- Compatible with IEEE 802.11a/b/g/n/ac/ax Wave 2 wireless standards
- Built-in 2 x 2 MIMO antenna
- Multi-operation modes to suit different wireless applications
- Provides up to 8 SSIDs to separate network traffic
- High power and receiver sensitivity designed to boost your signal coverage and link speed
- Supports WPA3 encryption
- Weatherproof IP67-rated housing

## Description

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The LevelOne WAB-8021 is a standalone, AX3000 Omni-directional outdoor dual-band Wi-Fi 6 PoE wireless access point that features Gigabit Ethernet ports and advanced 802.11ax 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 2976 Mbps(574Mbps in 2.4GHz/2401Mbps in 5GHz) and Omni-directional outdoor transmission distance of up to 100m.

The device runs on 2.4 and 5 GHz frequency, It also offers support for the new WPA3 encryption. Of course, the WAB-8021 is also equipped with PoE, removing the need for an external power supply, which makes it easy to install. Advanced weatherproof design, rated to IP67 means the WAB-8021 is designed for outdoor deployments, and can withstand rain, humidity, dust and snow. A fast, versatile and secure access point for a wide variety of outdoor network requirements.

## Additional Information

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Approval and compliance

● CE ● RED ● RoHS

Operating humidity

10% RH ~ 90% RH

Operating temperature

-20°C ~ 50°C

Storage humidity

5% RH ~ 95% RH

Storage temperature	-20°C ~ 80°C
Antenna	2 Built-in 5dBi MIMO 2.4GHz Omnidirectional Antenna, 2 Built-in 7dBi MIMO 5GHz Omnidirectional Antenna
EIRP (dBm)	< 20 dBm
Encryption	WPA2 Personal (AES), WPA3 Personal (AES)
Frequency band	2.412 to 2.484 GHz, 5.18GHz to 5.825GHz
Indicators	● Power ● System ● WIFI status
RAM size	512 MB
Flash memory size	8 MB (SPI NOR), 128 MB (SPI NAND)
Mount	Pole mount
Operating modes	Gateway Mode, Repeater Mode, AP Mode
Standards	● IEEE 10BASE-T (IEEE 802.3) ● IEEE 100BASE-TX (IEEE 802.3u) ● IEEE 1000BASE-T (IEEE 802.3ab) ● IEEE 802.11a/b/g/n/ac/ax ● IEEE 802.3at Power over Ethernet
Wireless channels	● 2.412 to 2.484 GHz: CH 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 ● 5.150GHz to 5.850GHz : CH 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 116, 120, 124, 128, 132, 140, 149, 153, 157, 161, 165
Port Configuration	1 x LAN/WAN RJ45 Ports (10/100 /1000 Base-T)
Features	● Web-Based GUI Configuration ● Multiple SSID (4 SSID for 2.4GHz, 4 SSID for 5GHz) ● Weatherproof IP67-rated housing
Product weight (kg)	1.3
Color	White
EAN	4015867231630
Model Number	WAB-8021
Package Contents	● WAB-8021 ● IP67 Plastic Waterproof Nylon Cable Gland ● Pole Mounting Hose Clamp (59-82mm) ● RJ45 Network Cable ● Quick Installation Guide ● Declaration of Conformity

Receiver sensitivity

2.4 GHz Radio : ● 802.11b / 1Mbps / RX Sensitivity : -90 (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 : -87 (dBm) ● 802.11n HT20 / MCS7 / RX Sensitivity : -70 (dBm) ● 802.11n HT40 / MCS0 / RX Sensitivity : -85 (dBm) ● 802.11n HT40 / MCS7 / RX Sensitivity : -68 (dBm) ● 802.11ax HE20 / MCS0 / RX Sensitivity : -83 (dBm) ● 802.11ax HE20 / MCS11 / RX Sensitivity : -60 (dBm) ● 802.11ax HE40 / MCS0 / RX Sensitivity : -83 (dBm) ● 802.11ax HE40 / MCS11 / RX Sensitivity : -56 (dBm) 5 GHz Radio : ● 802.11a HT20 / 6Mbps/ RX Sensitivity : -92 (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) ● 802.11n HT40 / MCS0 / RX Sensitivity : -88 (dBm) ● 802.11n HT40 / MCS7 / RX Sensitivity : -68 (dBm) ● 802.11ac VHT20 / MCS0 / RX Sensitivity : -88 (dBm) ● 802.11ac VHT20 / MCS8 / RX Sensitivity : -70 (dBm) ● 802.11ac VHT40 / MCS0 / RX Sensitivity : -88 (dBm) ● 802.11ac VHT40 / MCS7 / RX Sensitivity : -68 (dBm) ● 802.11ac VHT80 / MCS0 / RX Sensitivity : -85 (dBm) ● 802.11ac VHT80 / MCS9 / RX Sensitivity : -58 (dBm) ● 802.11ax HE20 / MCS0 / RX Sensitivity : -88 (dBm) ● 802.11ax HE20 / MCS11 / RX Sensitivity : -62 (dBm) ● 802.11ax HE40 / MCS0 / RX Sensitivity : -86 (dBm) ● 802.11ax HE40 / MCS11 / RX Sensitivity : -58 (dBm) ● 802.11ax HE80 / MCS0 / RX Sensitivity : -84 (dBm) ● 802.11ax HE80 / MCS11 / RX Sensitivity : -55 (dBm) ● 802.11ax HE160 / MCS0 / RX Sensitivity : -82 (dBm) ● 802.11ax HE160 / MCS11 / RX Sensitivity : -51 (dBm)

Frequency band  
Max. Wi-Fi Data Rate  
Wireless AP type  
PoE Supported  
Power consumption  
Dimensions (W x D x H)

2.4/5GHz(Dual bands)  
3000Mbps  
Outdoor  
Yes  
< 16W  
230 x 107 x 38 mm

