# DATASHEET

## AX3000 Dual Band PoE WLAN Access Point

### General data

Supports wireless transfer rates of up to 574Mbit/s (2.4GHz) or 2401Mbit/s (5GHz), 3000Mbit/s total
Supports OFDMA and MU-MIMO
Compatible with IEEE 802.11a/b/g/n/ac/ax and Wave 2 standards
Built-in 2 x 2 MIMO antenna
Multi-operation modes for different wireless applications
Features up to 8 SSIDs to separate network traffic
High power and reception sensitivity for optimal signal coverage and increased data throughput
Supports WPA3 encryption
Weatherproof IP-67 housing

The LevelOne WAB-8021 is a stand-alone AX3000 omni-directional outdoor dual-band Wi-Fi 6 PoE wireless access point that features Gigabit Ethernet ports and modern 802. 11ax Wave 2 MU-MIMO (Multi-User Multiple-Input Multiple-Output), which allows multiple devices to simultaneously receive a high-bandwidth Wi-Fi signal and distribute the data more efficiently. It offers a combined speed of up to 2976 Mbps (574 Mbps in 2.4 GHz / 2401 Mbps in 5 GHz) and an outdoor omnidirectional transmission range of up to 100 m.
The device runs on the 2.4 and 5 GHz frequencies and offers support for the new WPA3 encryption. Of course, the WAB-8021 is also equipped with PoE, which eliminates the need for an additional power supply and makes installation easier. The advanced IP67 weatherproof design means the WAB-8021 is designed for outdoor use and can withstand rain, moisture, dust and snow. A fast, versatile and secure access point for a variety of outdoor networking needs.

**This datasheet was created automatically on 23-10-2026 . Technical changes reserved.**

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# AX3000 Dual Band PoE WLAN Access Point

General
Color white

Features
- Web-Based GUI Configuration
- Multiple SSID (4 SSID for 2.4GHz, 4 SSID for 5GHz)
- Weatherproof IP67-rated housing

Miscellaneous
Frequency band 2.4/5GHz(Dual bands)
PoE Supported Yes
Wireless AP type Outdoor
Max Wi-Fi Data Rate 3000Mbps

Others
Approvals 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

scope of delivery
- WAB-8021
- IP67 Plastic Waterproof Nylon Cable Gland
- Pole Mounting Hose Clamp (59-82mm)
- RJ45 Network Cable
- Quick Installation Guide
- Declaration of Conformity

performance
Reception sensitivity (dBm) 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)

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● 802.11ax HE40 / MCS11 / RX Sensitivity: -56 (dBm)
5GHz 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)
Physical Specifications
Dimensions (W x D x H) 230 x 107 x 38 mm
Product weight (kg) 1.3
System specifications
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)
Flash memory size 8 MB (SPI NOR), 128 MB (SPI NAND)
Frequency band 2.412 to 2.484 GHz, 5.18GHz to 5.825GHz
indicator
● Power
● System
● WIFI status
Fixing pole mount
Operating mode Gateway Mode, Repeater Mode, AP Mode
Port configuration 1 x LAN/WAN PJ45 ports (10/100/1000 Base-T)
Energy consumption < 16W
RAM size 512 MB
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



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● 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

| Technical properties | |
|---|---|
| Frequency band | 2.4 GHz and 5 GHz |

| Available variants | | |
|---|---|---|
| **ArtNr.** | **Bezeichnung** | **Unique** |
| WAB-8021 | AX3000 Dual Band PoE WLAN Access Point | Unique |

**Note on Intended Use**

This data sheet is intended solely to describe the technical characteristics of the product. It does not replace an assessment of the product's suitability for a specific application. The user is responsible for ensuring that the product is used in accordance with its technical specifications and applicable legal and regulatory requirements.



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