



# Wireless 11a/b/g Outdoor PoE AP



WAB-7000

H/W Version: 1

## Fast and Far-Reaching Outdoor Wireless + Clear 11a Transmission

LevelOne's WAB-7000 is an outdoor PoE access point that can be deployed in AP, client, bridge, and repeater modes. It is especially useful as it can operate in 11a or 11b/g modes. As the 2.4GHz spectrum (11b/g) is frequently crowded with other wireless traffic, it is nice to have clear transmission lanes in the 11a mode (5GHz).

With the N-type connector, installers are free to choose an antenna that best fits their requirement.

## High Output Power for Extended Coverage

The LevelOne WAB-7000 support optional High Power RF transmission for long distance Point-to-Point or Point-to-Multipoint Deployment.

## Power Over Ethernet = Simple Installation

It's not always easy to find a power outlet, especially when you're on the roof of a building trying to connect 2 LANs in bridge mode. We've taken this into consideration and have made WAB-7000 PoE-compliant, making installation simple and easy.

## Weatherproof

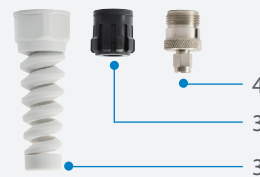
The WAB-7000 is IP-66 rated can deploy your wireless network in any harsh weather condition.

## Security

In addition to the industry security standards (WEP/WPA/WPA2), WAB-7000 also comes with MAC address filtering and tunneling to let network admins know exactly Status.



1. RJ-45 Port
2. Console Port
3. Ethernet cable water proof kit
4. RP-SMA to N-Type



## Key Features

- IEEE 802.11a/b/g standard compliant, operates on the 2.4 and 5 GHz unlicensed ISM spectrum
- Data rate of up to 54 Mbps
- Point-to-point and point-to-multi-point topology
- Optional Hi-Power RF transmission
- ACK timeout adjustment for long distance applications
- 802.11i and 802.1x security support
- PoE power supply and data transmission
- IP-66 weather-proof design

## Works Well With



**WAN-2218**  
11b/g 18dBi Directional Yagi  
Outdoor Antenna



**OAN-0600**  
Dual-Band Omni-Directional  
Antenna

## Technical Specifications

### Interface

1 X Wireless IEEE802.11a/b/g  
1 X 10/100 Mbps Auto-MDIX RJ-45 Ethernet port  
1 X RS232 console port connector

### Antenna Type

External Type with N-type jack connector

### Data Transfer Rates

1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps

### Security

IEEE802.1x Authenticator / RADIUS Client (EAP-MD5/TLS/TTLS)

Support in AP Mode

WPA /WPA2

MAC address filtering

Hide SSID in beacons

User isolation

NAT in CR mode

### IEEE Standards

802.11a/b/g, 802.1x,

802.3, 802.3u

802.3af

Media Access Protocol: Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA)

### Modulation Technology

Orthogonal Frequency Division Multiplexing (OFDM)

DBPSK @ 1 Mbps DQPSK @ 2 Mbps

CCK @ 5.5 & 11 Mbps

BPSK @ 6 and 9 Mbps

QPSK @ 12 and 18 Mbps

16-QAM @ 24 and 36 Mbps

64-QAM @ 48 and 54 Mbps

### Operation Mode

AP mode/Client Bridge mode

Universal Repeater mode

Point-to-point , point-to-multi point, WDS mode

### Frequency Band

802.11a: 5.15~5.25 GHz  
5.25~5.35 GHz  
5.47~5.725 GHz  
5.725~5.825 GHz

802.11b/g: 2.4~2.484 GHz

### Operating Channels

802.11a: 11 for North America

14 for Japan

13 for Europe

802.11b/g: US/Canada: 12 non-overlapping channels  
(5.15~5.35 GHz, 5.725~5.825 GHz)

Europe: 19 non-overlapping channels  
(5.15~5.35 GHz, 5.47~5.825 GHz)

Japan: 4 non-overlapping channels  
(5.15~5.25 GHz)

China: 5 non-overlapping channels  
(5.725~5.85 GHz)

### Transmitter power

5.15~5.24 GHz (11a) 17 dBm @ 6~24 Mbps

17 dBm @ 36 Mbps

16 dBm @ 48 Mbps

15 dBm @ 54 Mbps

5.26~5.35 GHz (11a) 20 dBm @ 6~24 Mbps

18 dBm @ 36 Mbps

16 dBm @ 48 Mbps

15 dBm @ 54 Mbps

5.745~5.85 GHz (11a)

18 dBm @ 6~24 Mbps

16 dBm @ 36 Mbps

14 dBm @ 48 Mbps

13 dBm @ 54 Mbps

2.412~2.472 GHz (11b) 20 dBm @ 1, 2, 5.5, and

11 Mbps

2.412~2.472 GHz (11g) 20 dBm @ 54 Mbps

### Receiver Sensitivity

802.11a: -88 dBm @ 6 Mbps

-70 dBm @ 54 Mbps

802.11b: -92 dBm @ 1 Mbps

-95 dBm @ 11 Mbps

802.11g: -91 dBm @ 6 Mbps

-74 dBm @ 54 Mbps

### Topology

Infrastructure, WDS

### Configuration

Web-based configuration (HTTP)

SNMP V1

Telnet

### Firmware Upgrade

Upgrade firmware via web-browser

### IP Auto-configuration

DHCP client/server

## Physical Specifications

### Housing

IP-66 rated housing

### Dimensions

Length= 163.8mm

Width = 135.2mm

Height= 52.0mm

### Weight

1.2 Kg (2.6 lbs)

### Power Requirements

Active Ethernet (802.3af)

- 48 VDC/0.375A

## Environmental

### Temperature Range

Operating: 0°C ~ 65°C

(32°F ~ 149°F)

Storage: -20°C ~ 80°C

(-4°F ~ 176°F)

### Humidity (non-condensing)

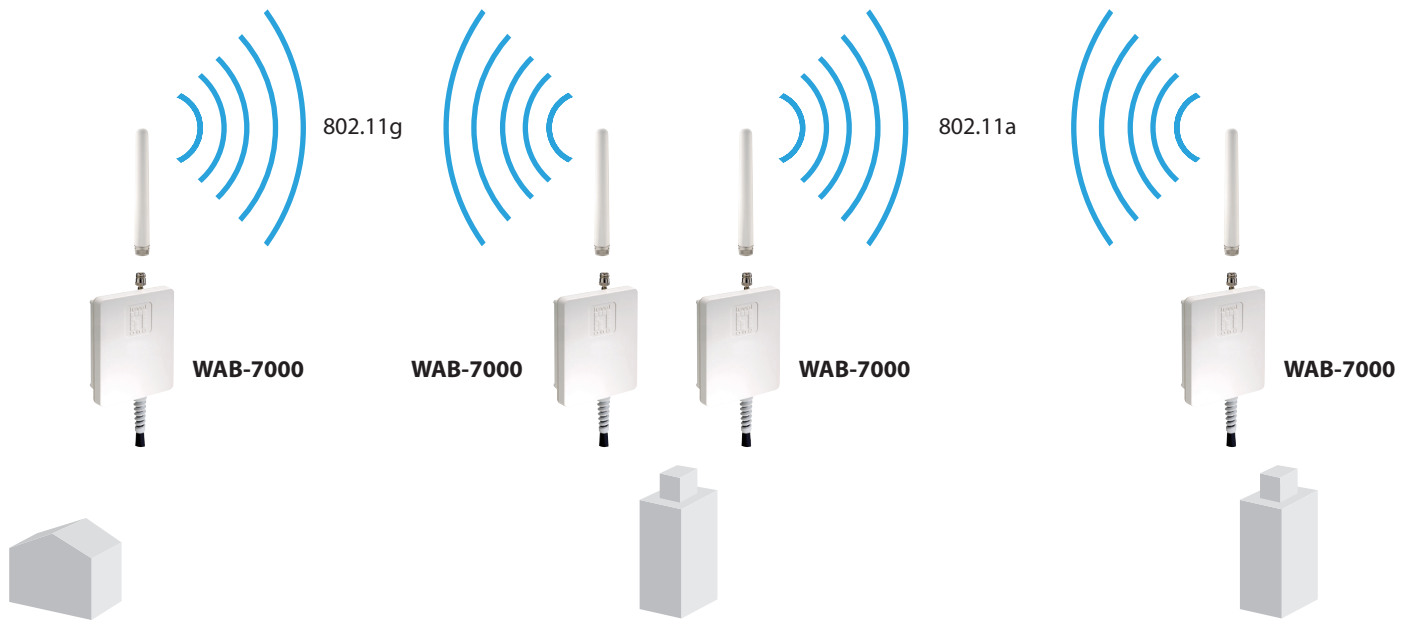
5%~95% Typical

### Regulation Certifications

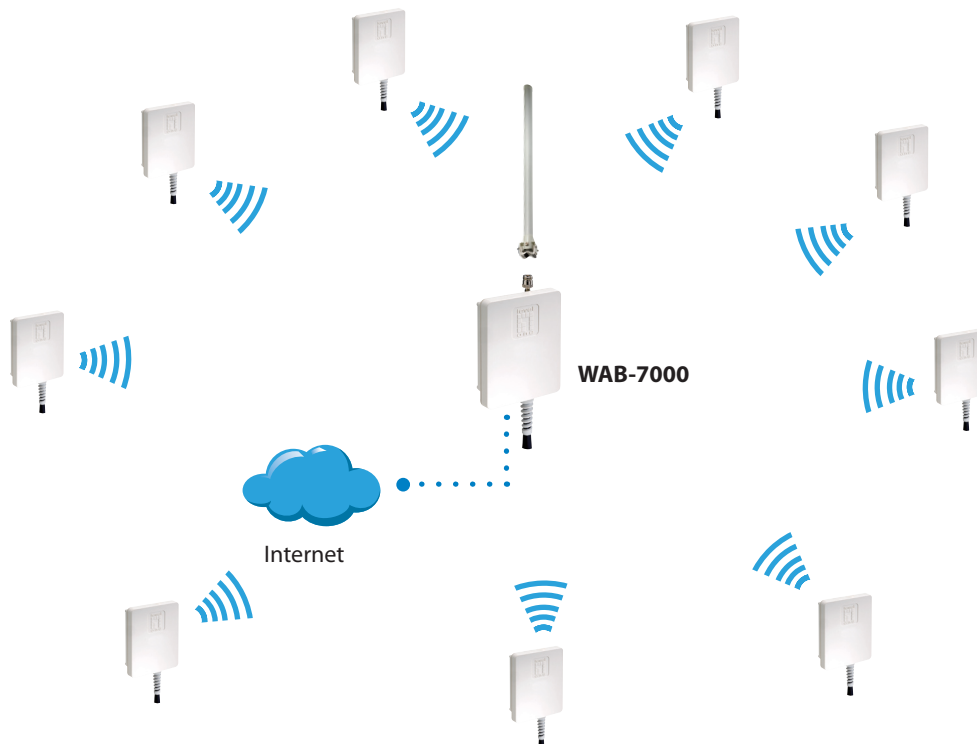
FCC Part 15, CE

## Product Diagram

WAB-7000 as a Point-to-Point solution using both 11a and 11g



Point to Multi-Point



## Order Information

### Package Contents

**WAB-7000:** 11a/b/g Wireless PoE Access Point

WAB-7000, PoE Injector (POI-2002), Wall/Pole Mount Kit, Waterproof Kit for Ethernet Cable, CD Manual



## Optional Accessories



**ANC-4230**  
400 Series N plug to N plug Cable  
3m



**ANC-2210**  
200 Series N plug to N plug Cable  
1m