



WAB-3002

# Wireless 11g Outdoor PoE AP

H/W Version: 1

### Fast and Far-Reaching Outdoor Wireless

LevelOne's WAB-3002 is an outdoor PoE access point that can be deployed in AP, client, bridge, and repeater modes. This versatile AP allows installers to build wireless networks on the 11b (11 Mbps) and 11g (54 Mbps) protocols in the 2.4 GHz spectrum. 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-3002 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-3002 PoE-compliant, making installation simple and easy.

### Weatherproof

Snow, rain, typhoons, desert heat, etc., this AP is up to the challenge. The WAB-3002 is IP-66 rated so you can deploy your wireless network in any harsh weather condition.

### Security

In addition to the industry security standards (WEP/WPA/WPA2), WAB-3002 also comes with MAC address filtering and tunneling to let network admins know exactly which stations have access to the network.



### Key Features

- IEEE 802.11b/g standard compliant operates on the 2.4 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



**WAN-2181**  
11b/g 18dBi Directional Panel  
Outdoor Antenna

## Technical Specifications

### Interface

1 X Wireless IEEE802.11b/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

### Frequency Band

2.400~2.484 GHz

### 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

IEEE802.11b/g, IEEE802.1x,

IEEE802.3, IEEE802.3u

IEEE802.3af

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

### Operating Channels

11 for North America

14 for Japan

13 for Europe

4 for France

2 for Spain

### Receiver Sensitivity

802.11g: 88 dBm @ 6 Mbps

70 dBm @ 54 Mbp

802.11b: 92 dBm @ 1Mbps

85 dBm @ 11Mbps

### Transmitter power

2.412~2.472 GHz (11g)

20 dBm @ 54 Mbps

2.412~2.472 (11b)

20 dBm @ 11 Mbps

### Operation Mode

AP mode/Client Bridge mode

Universal Repeater mode

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

### Topology

Infrastructure, WDS

### Configuration

Web-based configuration (HTTP)

SNMP V1, V2c

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/0.3A

## Environmental

### Temperature Range

Operating: 0°C to 65°C

(32°F to 149°F)

Storage: -20°C to 80°C

(-4°F to 176°F)

### Humidity (non-condensing)

5%~95% Typical

### Regulation Certifications

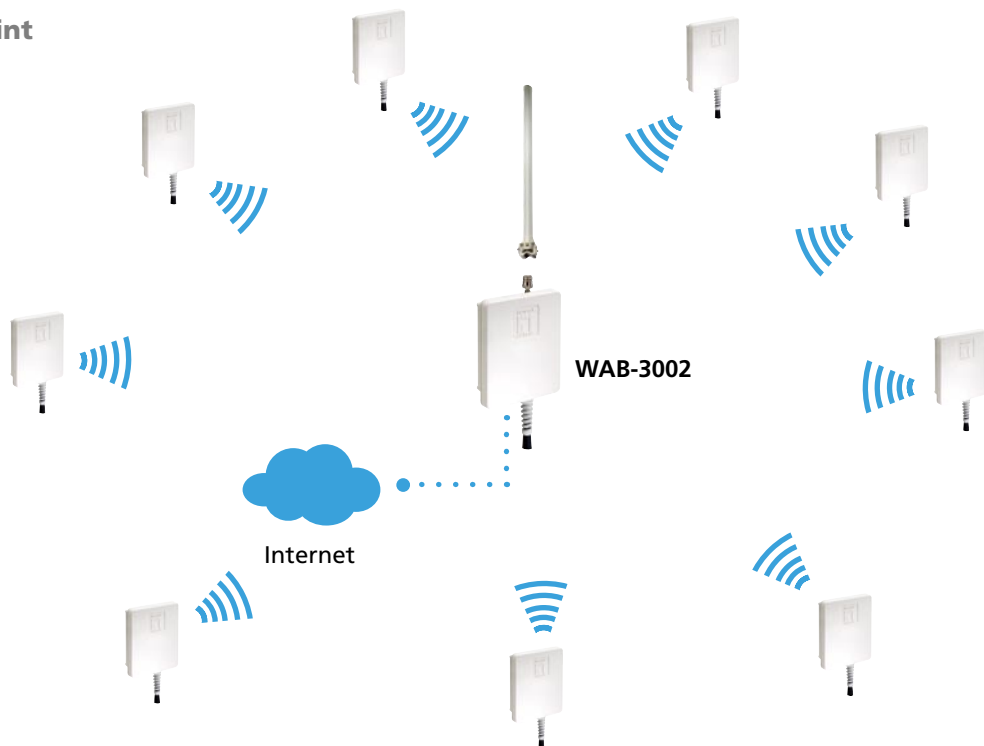
FCC Part 15, CE

## Product Diagram

### WDS-Application



### Point to Multi-Point



### Order Information

**WAB-3002:** Wireless 11g Outdoor PoE Access Point

### Package Contents

WAB-3002, Power over Ethernet Injector (POI-2000), Wall/Pole mounting kit  
Waterproof kit for Ethernet cable, CD-ROM