

Wireless 11g Outdoor PoE AP w/ Built-In 9dBi Antenna

Fast and Far-Reaching Outdoor Wireless

LevelOne's WAB-3001 is an outdoor PoE access point that comes with a built-in 9 dBi antenna. This versatile AP allows installers to build wireless networks on the 11b (11 Mbps) and 11g (54 Mbps) protocols. This AP can be deployed in AP, client, bridge, and repeater modes.

High Output Power for Extended Coverage

The LevelOne WAB-3001 support adjustable 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-3001 PoE compliant, making installation simple and easy.

Weatherproof

Snow, rain, typhoons, desert heat, etc., this AP is up to the challenge. The WAB-3001 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-3001 also comes with MAC address filtering and tunneling to let network admins know exactly which stations have access to the network.



WAB-3001

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
- Adjustable 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

Technical Specification

Network Interface

Standards

- ◆ IEEE802.11b/g, IEEE802.1x,
- ◆ IEEE802.3, IEEE802.3u
- ◆ IEEE802.3af

Interface

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

RF Information

Compatibility

IEEE 802.11g/ IEEE 802.11b

Media Access Protocol

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

Modulation Technology

Orthogonal Frequency Division Multiplexing (OFDM)
 DBPSK @ 1Mbps
 DQPSK @2Mbps
 CCK @ 5.5 & 11Mbps
 BPSK @ 6 and 9 Mbps
 QPSK @ 12 and 18 Mbps
 16-QAM@ 24 and 36 Mbps
 64-QAM@ 48 and 54 Mbps

Data Transfer Rates

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

Operating Channels

11 for North America, 14 for Japan, 13 for Europe, 2 for Spain, 4 for France

Receive Sensitivity (Typical)

802.11g:
 -88dBm @ 6Mbps
 -70dBm @ 54Mbps
802.11b:
 -92 dBm @ 1Mbps
 -85 dBm @ 11Mbps

Frequency Band

2.400~2.484 GHz

Antenna type

Integrated 9dBi Panel flat panel antenna

Available transmit power (Typical)

- 2.412~2.472G(IEEE802.11g)
20dBm @ 54Mbps
- 2.412~2.472G(IEEE802.11b)
20dBm. @11Mbps

Operation Mode

- ◆ AP mode/Client Bridge mode
- ◆ Universal Repeater mode
- ◆ Point-to-point , point-to-multi point WDS mode

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

Networking

Management

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 Spec.

Housing

IP-66 rated housing

Dimensions

163.8(L)mm * 135.2(W)mm * 52.0(H)mm

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)

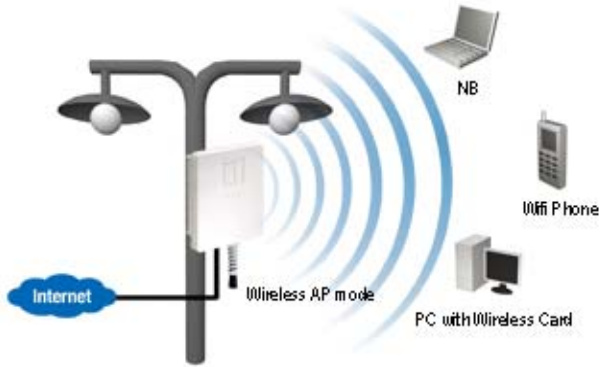
5%~95% Typical

Regulation Certifications

FCC Part 15/UL, ETSI 300/328/CE

Product Diagram

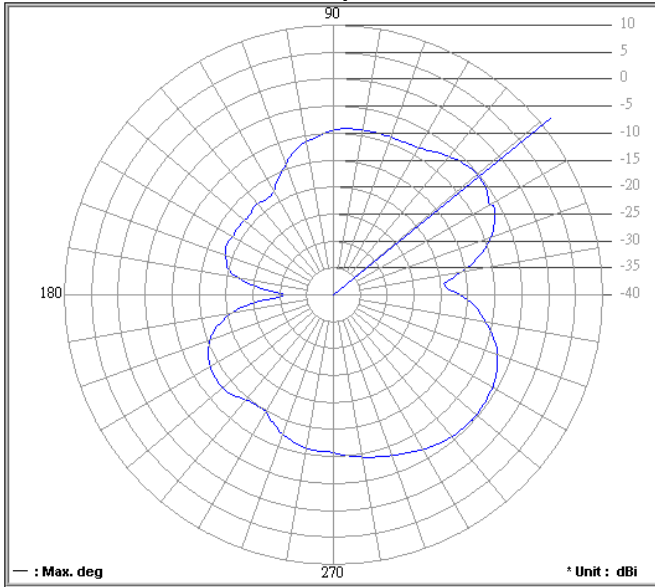
Hotspot Application



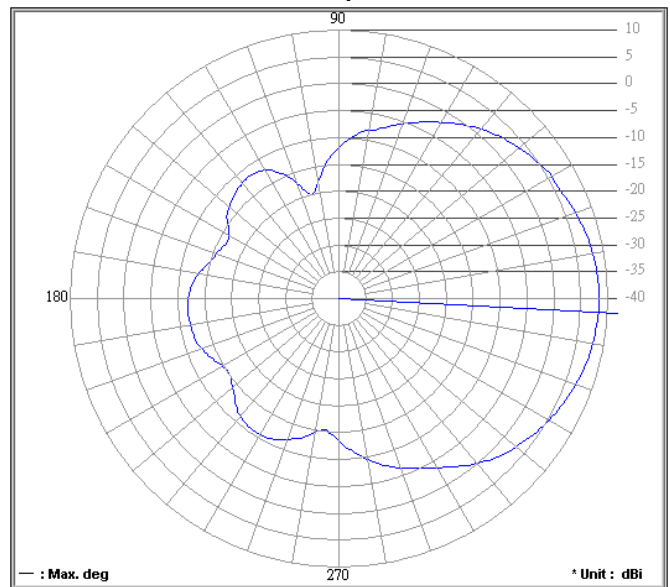
WISP Application



Antenna radiation pattern : H Plan



Antenna radiation pattern : V Plan



Order Information

WAB-3001: Wireless 11g Outdoor PoE AP + 9dBi Antenna

Package Contents

- ◆ Outdoor Wireless Client Bridge unit
- ◆ PoE-2000 Power over Ethernet Injector
- ◆ User's manual CD-ROM
- ◆ Wall/Pole mounting kit
- ◆ Waterproof kit for Ethernet cable