



108Mbps Outdoor Bridge (11a)



WBA-4000

H/W Version: 1

Product Overview

The LevelOne WBA-4000 108Mbps Outdoor Bridge is a cost effective solutions for wireless network in outdoor environment. With the Turbo A technology, it delivers data rates up to 108Mbps in the 5.15 to 5.85 GHz frequency band with outstanding performance in all aspects.

Multipoint and Backhaul Solutions

Using the Point-to-Point or Point-to-Multipoint bridge technologies, WBA-4000 offers reliable and flexible wireless connections among buildings and for backhaul solutions. With LevelOne's optional antennas, WBA-4000 allows transmission ranges up to 17 kilometres across buildings, campuses, factories, etc. There are two modes on security setting for WBA-4000: Shared Key and Unique Key, both with 64/128/152-bit WEP (Wireless Encryption Protocol) to ensure secure data transmissions.

Waterproof / Weatherproof Installation

The WBA-4000 features IP68 rated waterproof and

weatherproof metal housing to avoid water invasion and weather corrosion, making it ideal for outdoor environment. This unit also includes an embedded surge protector to prevent damages from lightning or static electricity. With the PoE function, it allows you to reduce power cable and adapter expenses and increase location options while deploying wireless outdoor AP installation anywhere.

Easy to Configure and Management

The WBA-4000 provides SNMP functions for administrators to manage the networks easily. All configuration and maintenance of this AP can be done with a web browser through the web-based management interface.

One possible application for WBA-4000 is to be the last-mile connection. With features including low cost, low power consumption, high security and wide range wireless coverage, WBA-4000 allows service providers or carriers to deploy WAN or LAN rapidly for their customers.



1. N-Type
2. PoE Cable Connector

Key Features

- Complies with IEEE 802.11a standards
- Supports Turbo A 108Mbps
- Highly efficient design mechanism to provide unbeatable performance
- IP-68 rated water-resistant and weatherproof metal housing
- Built-in surge protector
- Power over Ethernet design to eliminate power cable and adapter expense
- Point-to-Point, Point-to-Multi Point bridge
- Support 64/128/152-bit WEP encryption
- Adjustable output power: 100mW, 50mW, 25mW, 13mW and 6mW
- The operating range can up to 17KM at 7Mbps data rate with 5GHZ 22dBi antenna

Works Well With



WAN-4231
11a 23dBi Directional Outdoor Panel Antenna



WAN-4232
11a 23dBi Directional Panel Outdoor Antenna

Technical Specifications

Standard Conformance

IEEE802.11a,

LAN Port

1 x 10/100 Mbps Auto-MDIX RJ-45 Ethernet port

IP Configuration

Manually Setup IP address

Automatically get IP address (DHCP client)

Radio Operation

Frequency Type

DSSS

Frequency Band

5.15~5.35 GHz

5.50~5.70 GHz

5.725~5.85 GHz

Operating Channel

9 non-overlapping channels

Data Transfer Rate

802.11a up to 54 Mbps (6/9/12/18/24/36/48/54 Mbps)

Turbo A to 108 Mbps (12/18/24/36/48/72/96/108 Mbps)

Modulation

Basic Mode:

6,9 Mbps: BPSK

12, 18 Mbps: QPSK

24, 36 Mbps: 16QAM

48, 54 Mbps: 64QAM

Turbo Mode:

12,18 Mbps: BPSK

24,36 Mbps: QPSK

48,72Mbps: 16QAM

96,108 Mbps: 64QAM

Receiver Sensitivity

Basic Mode:

6 Mbps: -82dBm

9 Mbps: -81dBm

12 Mbps: -79dBm

18 Mbps: -77dBm

24 Mbps: -74dBm

36 Mbps: -70dBm

48 Mbps: -66dBm

54 Mbps: -65dBm

Turbo Mode:

12 Mbps: -85dBm

18 Mbps: -84dBm

24 Mbps: -83dBm

36 Mbps: -81dBm

48 Mbps: -78dBm

72 Mbps: -73dBm

96 Mbps: -69dBm

108 Mbps: -65dBm

Antenna Type

External high gain antenna

RF Connector

1 x N-Type connector

RF Output Power:

Up to 100mW (Software provisionable)

Operation mode

Point to Point Bridge Modes

Point to Multi Point Bridge Modes

Security

WEP 64/128/152-bit encryption,

MAC Address Access Control List

Management

SNMP v2c read capability

Web Based Management

Firmware upgrade via FTP

Physical Spec.

Housing

IP-68 Rated housing

Lightning Protection

Built-in

POE Power Spec

Power Input: 48VDC, 300mA

Power Supply: 100~240V, 50~60Hz, 0.25A

Temperature

Operation: -33~70°C

Storage: -40~80°C

Humidity

10%~90 % (non-condensing)

Dimensions

320mm (W) x 310mm (D) x 48mm (H)

Certification

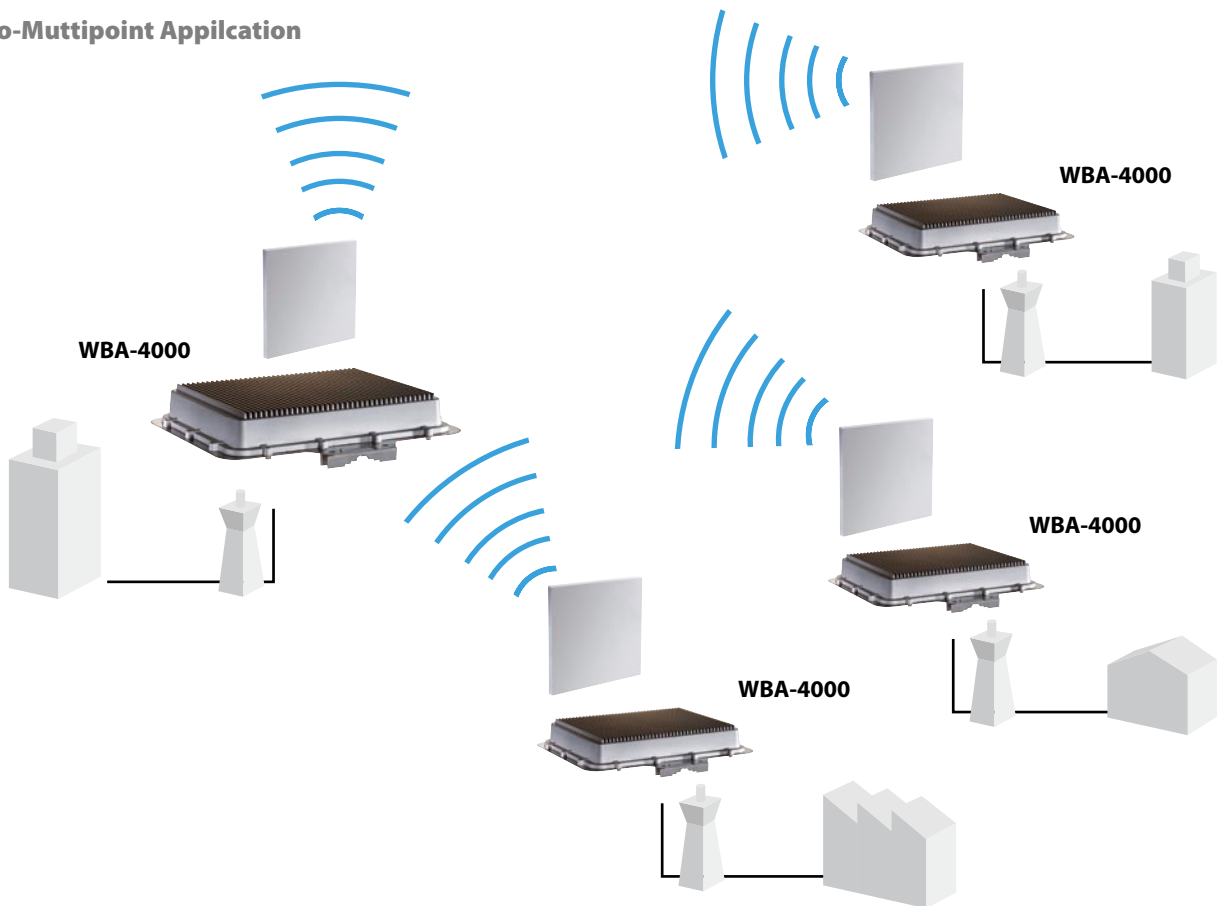
FCC, CE

Product Diagram

Point-to-Point (Bockhaut) Application



Point-to-Multipoint Application





Order Information

WBA-4000: 108Mbps Outdoor Bridge (11a)

Package Contents

WBA-4000
PoE Injector
25M Cat.5 Cable
1.5M N-Type to N-Type Cable
Installation Kits
CD Manual/Utility
Quick Installation Guide

Optional Accessories



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



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