



# 300Mbps 5G Wireless Outdoor PoE Access Point / Bridge



WAB-5120

H/W Version: 1

## Product Overview

The LevelOne WAB-5120 300Mbps \* 5G Wireless Outdoor PoE Access Point/Bridge is a high-performance last-mile broadband solution that provides reliable wireless network coverage. It complies with IEEE 802.11a/n standards and features a high-power output for higher bandwidth with longer range for outdoor applications.

## Flexible Deployment by PoE

The WAB-5120 comes with Passive PoE compatibility which enables a flexible installation even in locations where power outlets are limited or nonexistent.

## Easy Installation and Configuration

A web-based utility offers system administrators an easy method to upgrade the firmware and to

manage the device over the internet. Using SNMP, the WAB-5120 supports multiple access point configuration from one location. The LED indicators simplify the configuration and management process.

## Enhanced Throughput

The WAB-5120 is compliant with IEEE 802.11a/n standards and provides much higher data rates than an IEEE 802.11a solution. It supports up to 40Mbps data rate (throughput) of up to 5km distance. The embedded 16dBi directional dual-polarization antenna with extensive wireless coverage and upgradable external SMA-type interface provide a scalable solution.

\* IEEE 802.11 a/n 5G devices cannot compatible with IEEE 802.11 b/g/n 2.4G devices.



1. SMA Type Antenna Connector
2. LAN2 RJ-45 Port
3. Reset Button
4. Power On/Off Button
5. LAN1 RJ-45 Port
6. LED Indicators

## Key Features

- Compatible with IEEE 802.11a/n wireless standards on the 5GHz frequency
- Built-in 16dBi directional dual-polarization antenna
- Provides 2 Reverse SMA-Type connectors for optional high-gain antennas
- Supports AP, Client, WDS and AP Repeater Modes
- High reliable IP55 watertight housing endures harsh environments
- Supports Passive Power over Ethernet of 15V
- SNMP remote configuration management

## Works Well With



**WAN-9150**  
5GHz 15dBi Directional Dual-Polarization Outdoor Panel Antenna



**WAN-9180**  
5GHz 18dBi Directional Dual-Polarization Outdoor Panel Antenna

## Technical Specification

### Standard Compliance

IEEE 802.3u MDI / MDIX 10/100 Fast Ethernet  
IEEE 802.11a wireless LAN interface  
IEEE 802.11n wireless LAN standard

### Power Consumption

Main device only  
-15VDC @ 800mA (full range switching)  
Main device + PoE out (recommend)  
-15VDC @2000mA (full range switching)

### Radio

#### Antenna:

Default embedded 2T2R 16dBi dual-polarity directional antenna  
Reverse SMA-type Connector (Plug)  
\*Switchable by SW

#### Output Power \* Band edge exclusive (Controllable for different country regulations)

IEEE 802.11a: 24dBm @ 24Mbps  
IEEE 802.11an (HT20): 23dBm @MCS0/8  
IEEE 802.11an (HT40): 23dBm @MCS0/8

#### Sensitivity:

IEEE 802.11a: -89dBm @ 6Mbps  
IEEE 802.11an (HT20): -89dBm @ MCS0  
IEEE 802.11an (HT40): -85dBm @ MCS0

#### Operating Frequency

FCC : \* 5725-5850 MHz  
CE: 5470-5725 MHz (DFS band)

#### Data Rate

802.11a:  
54M/48M/36M/24M/18M/12M/9/6 Mbps auto fallback  
802.11n:  
HT20 MCS0~15 (GI=800ns or GI=400ns)  
HT40 MCS0~15 (GI=800ns or GI=400ns)

#### Modulation:

IEEE 802.11a: OFDM  
IEEE 802.11an: OFDM

### Software Specification

#### Operation Mode:

AP, Client, WDS, AP Repeater, AP Router

#### Security:

WEP 64,128, 152-bit, WPA/WPA2, WPA-PSK/WPA2-PSK, 802.1X Authentication

#### Management:

Telnet, FTP, SNMP, Password Changes, Firmware updates, Configuration Files

#### Advance Settings:

WMM Mode, Output Power Control, Fragmentation Length, Beacon Interval,  
RTS/CTS threshold, DTIM Interval, Space-in-meter, Channel mode, HT protect, IGMP snooping, Preamble Type, Short GI, Extension channel protection mode, Link Integration, RIFS, Max. Station Number, Flow control

### Physical Specification

#### Dimension

255.6mm(L)×110.98mm(W) ×47.65mm(H)

#### Weight

<600g

#### Enclosure

High Reliable Waterproof IP55 Enclosure

### Environment Specification

#### Temperature (Ambient)

Operating -20 ~ 70 °C  
Storage -30 ~ 80 °C

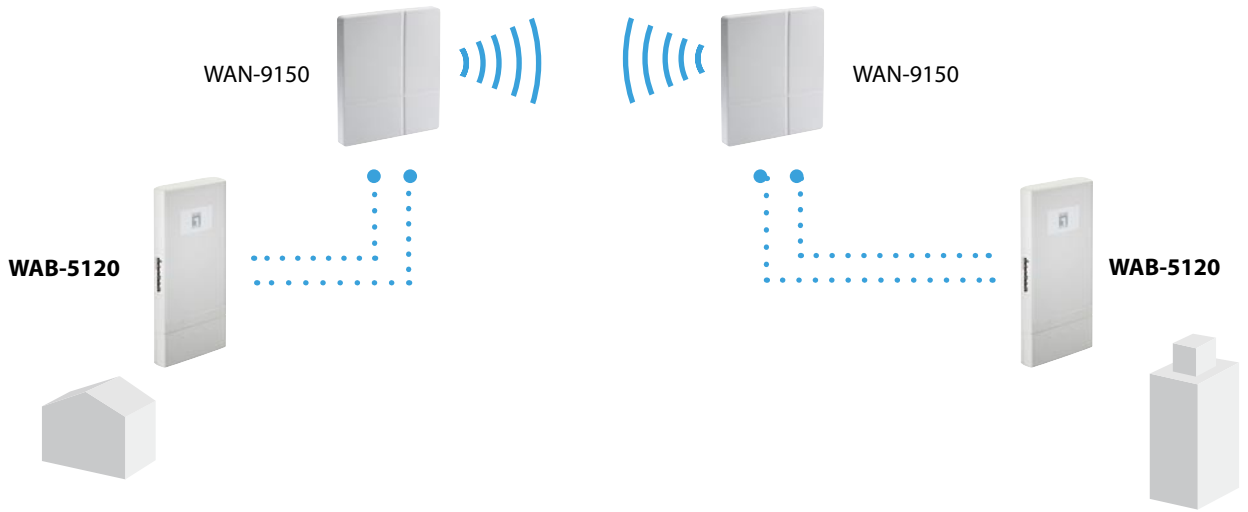
#### Humidity (non-condensing)

Operating 10 ~ 95%  
Storage 5 ~ 95%

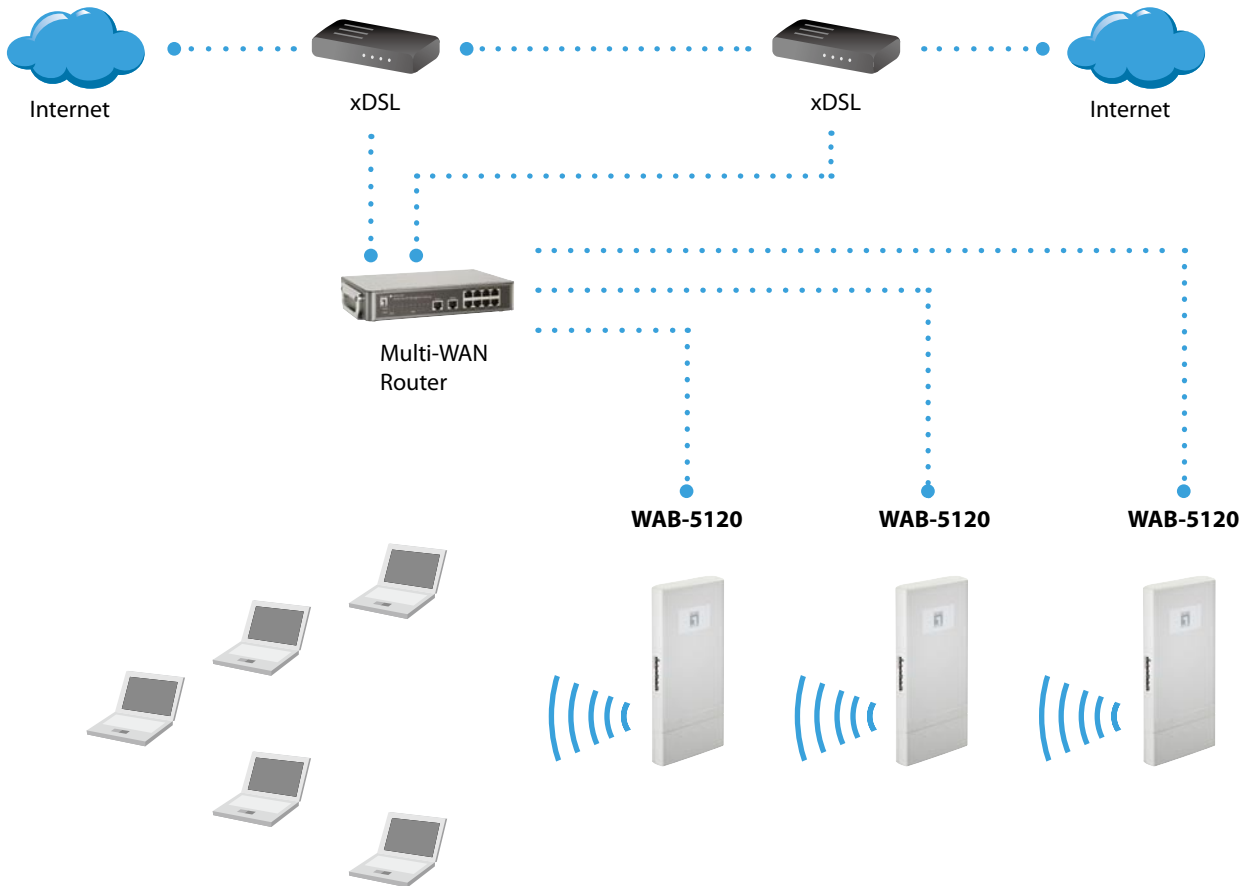
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## Product Diagram

### WDS Mode



### AP Mode





**Order Information**

**WAB-5120:** 300Mbps 5G Wireless Outdoor PoE Access Point/Bridge

**Package Contents**

- WAB-5120
- Clamp x 2
- DC Adapter
- PoE Injector
- Ethernet Cable
- Quick Installation Guide
- CD Manual/QIG