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.

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
Reserve 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

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

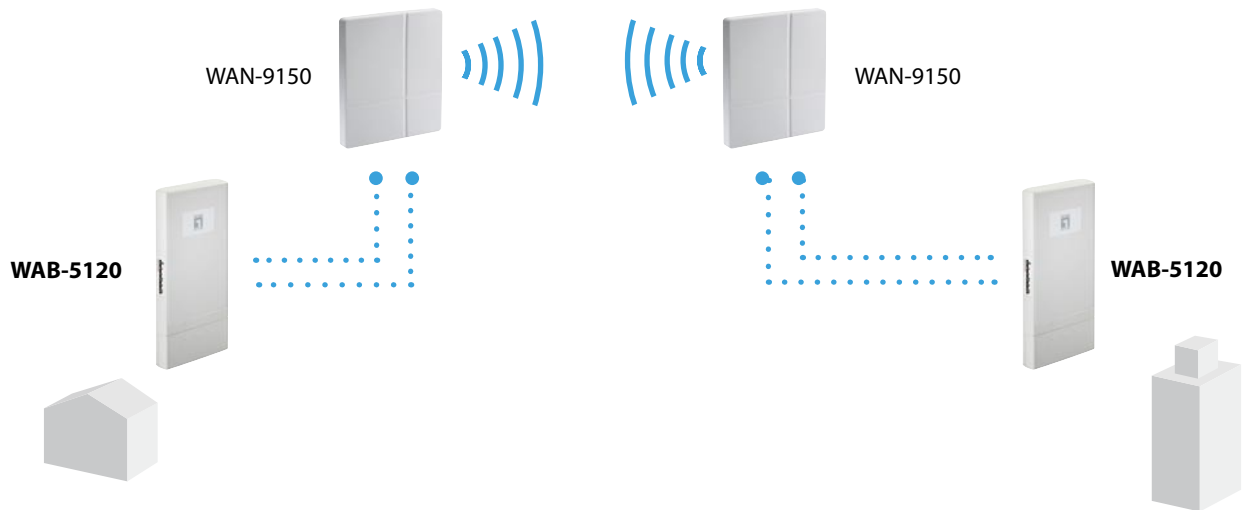### Temperature (Ambient)

Operating -20 ~ 70 ℃
Storage -30 ~ 80 ℃
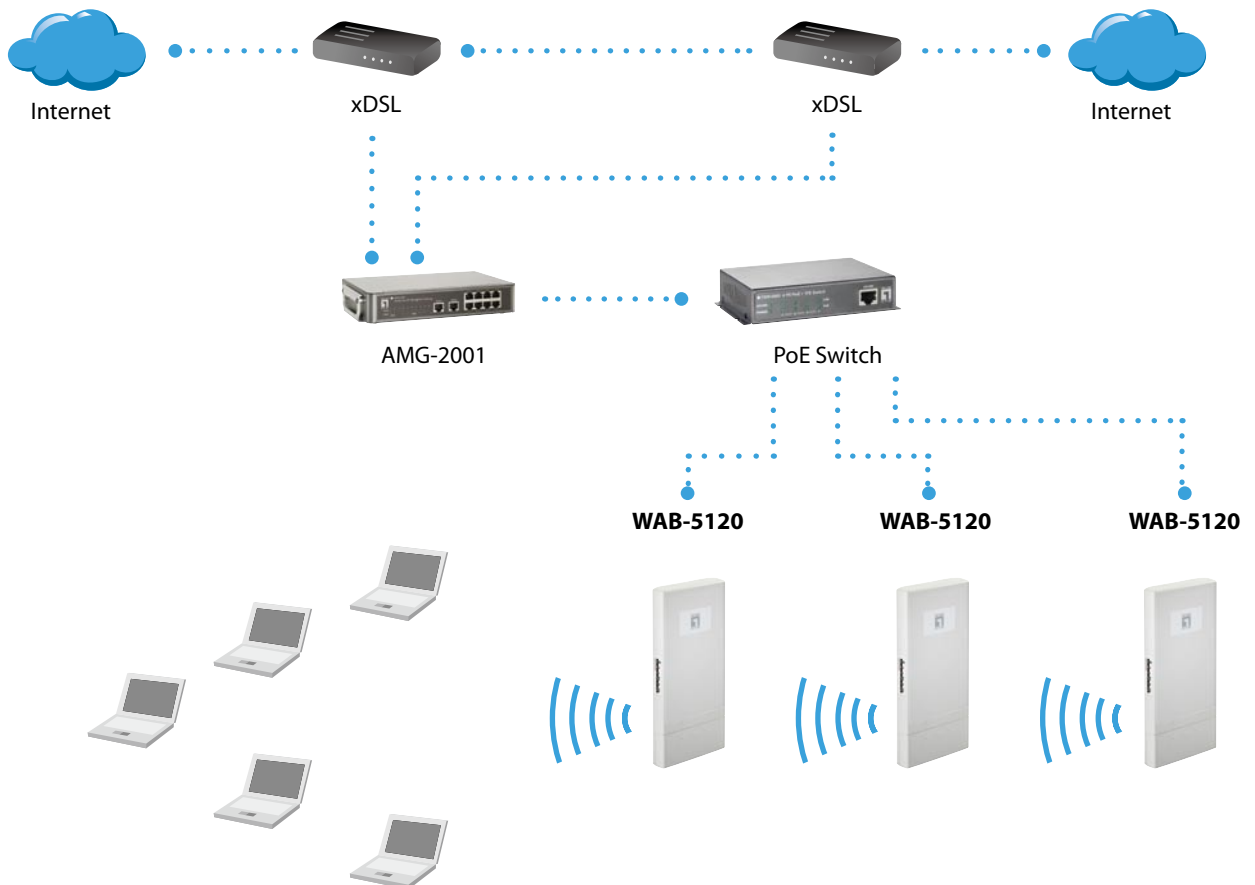
Humidity (non-condensing)

Operating 10 ~ 95%
Storage 5 ~ 95%

Product Diagram

WDS Mode

WAN-9150

WAN-9150

WAB-5120

WAB-5120

AP Mode

Internet

xDSL

xDSL

Internet

AMG-2001

PoE Switch

WAB-5120

WAB-5120

WAB-5120

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

V1.0