**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.

**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)
- **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:**
  - 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

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## 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%

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

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