# WLN-EB5N-IN

# Outdoor High-performance Bridge

802.11a/n 5G industrial grade

| | | | |
|---|---|---|---|
| TDMA | Intelligent Rate Control | ACK Time-out Adjustment | 2x2 MiMo |
| High Throughput | Point-to-Point | Point-to-Multi-Point | Hardware Watchdog |

## Key Features

- Supports 802.11a/n standard

- The highest transmission rate is 90Mbps

- Outdoor transmission distance: 0~1.5km

- Integrated antenna, quick installation

● Shipped in pairs, no configuration required

● Built-in VTrans technology, including

1) TDMA: eliminate the performance degradation caused by hidden terminals and maximize the wireless transmission efficiency

2) Frequency (channel) expansion function: eliminate interference caused by the same frequency and adjacent frequency through more frequency selection

3) Band width selection: by adjusting the channel width, the overlapping parts of spectrum can be avoided and the influence of interference by other channels can be reduced

4) AutoAck function: intelligently calculate the ACK value required for long-distance transmission to achieve the optimal performance at this distance

● Supports bridge and router modes. Network architecture can be flexibly deployed by adjusting the network mode of devices

● Intelligent QoS wireless multimedia optimization technology, providing high priority transmission levels for voice and video

● Supports web page management, making installation and maintenance of equipment more convenient

● IP65

# Specifications

**Hardware Specification**

| Model | WLN-EB5N-IN |
|---|---|
| Dimensions(mm) | 140x93x43mm |
| Weight(kg) | 0.19kg |
| Installation | Pole mounting Diameter≤55mm |
| Protection Level | IP65 |
| Antenna Gain | 12dBi |
| Beam Width | H：35°，V：35° |
| Power Supply | 12V Passive POE |
| Max Power Consumption(W) | 6W |
| Average Power Consumption(W) | 4W |
| CPU | AR9344 |
| DDR & Memory | 64MB DDR2,8MB Flash |
| Physical Interface | 2*10/100Mbps |

| Indicator Light | 1*Power Indicator |
| --- | --- |
| | 1*WLAN  Indicator |
| | 1*LAN  Indicator |
| | 3* Signal strength indicator |
| Maximum Transmitted Power | 24dBm |
| Working Temperature | -40℃~65℃（-40℉~149℉） |
| Storage Temperature | -40℃~85℃（-40℉~185℉） |
| Working Humidity | 5%~95%RH Non-condensing |
| Surge | POE/GE: CM 2KV , DM 1KV |
| ESD Protection | Contact 6KV , Air 8KV |
| Wind Survivability | 134km/h |

## Software Specification

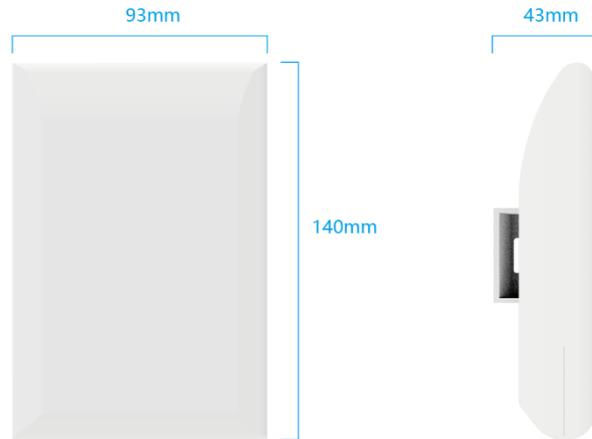| Protocol | 802.11a/n |
| --- | --- |
| Frequency | 5180~5320MHz、5745~5825MHz（China） |
| | 5180~5320MHz、5500~5720MHz、5745~5825MHz（United States） |
| | 5160~5340MHz、5480~5720MHz、5745~5865MHz（India） |
| | 5160~5340MHz、5480~5720MHz、5745~5825MHz（United Arab Emirates） |
| | 5745~5805MHz（Indonesia） |
| | Supported frequency range：4920~6100MHz（should depend on the local regulation.） |
| | * The above frequencies need specific version support |
| Operating Mode | AP, Station, WDS AP, WDS Station |
| Security | WPA2-PSK, Hidden SSID, IP/MAC Filtering |
| Network Mode | Bridge/ Router |
| Management | Support Web/AC/SNMP |
| Other | Timed restart，Support VLAN，QoS, Watchdog |

# RF Specification

| | TX Power | | | Sensitivity | | |
|---|---|---|---|---|---|---|
| | Date Rate | Avg. TX | Tolerance | Date Rate | Sensitivity | Tolerance |
| 11a/n | 6 Mbps | 21dBm | +/- 2dBm | 6 Mbps | -93dBm | +/- 2dBm |
| | 54 Mbps | 19dBm | +/- 2dBm | 54 Mbps | -74dBm | +/- 2dBm |
| | HT20 MCS0(combination) | 24dBm | +/- 2dBm | HT20 MCS0 | -93dBm | +/- 2dBm |
| | HT20 MCS7(combination) | 21dBm | +/- 2dBm | HT20 MCS7 | -73dBm | +/- 2dBm |
| | HT40 MCS0(combination) | 24dBm | +/- 2dBm | HT40 MCS0 | -90dBm | +/- 2dBm |
| | HT40 MCS7(combination) | 21dBm | +/- 2dBm | HT40 MCS7 | -70dBm | +/- 2dBm |

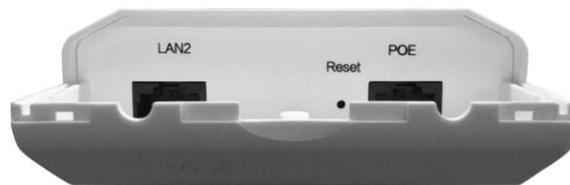* The combined power in the chart above is the result of tested single power plus 3dB

# Networking

# Dimensions

93mm

43mm

140mm

# Interface

LAN2

Reset

POE
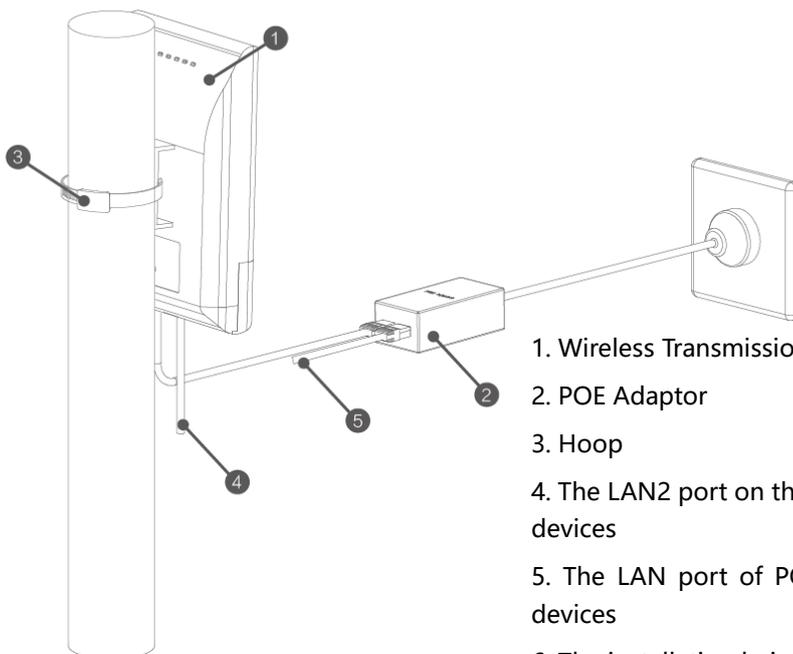
# Installation

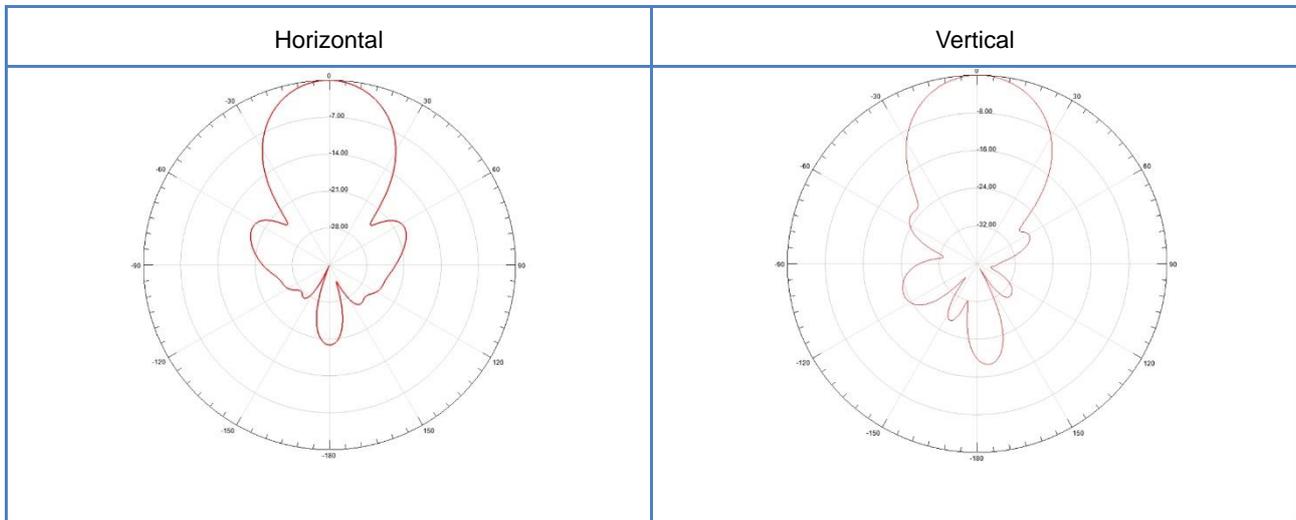1. Wireless Transmission Device

2. POE Adaptor

3. Hoop

4. The LAN2 port on the main device can be connected with the other devices

5. The LAN port of POE adaptor can be connected with the other devices

6. The installation height needs to be more than 4 meters

*The actual installation height needs to be determined according to the transmission distance and the installation environment, and there is no obstruction between the two points.

## Antenna Polar Plots

| Horizontal | Vertical |
| --- | --- |
|  |  |

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\* Product specifications and availability are subject to change without notice.