



# 5GHz 18dBi Directional Dual-Polarization Outdoor Panel Antenna



WAN-9180

H/W Version: 1

The LevelOne WAN-9180 18dBi Directional Dual-Polarization antenna is designed for outdoor wireless connections. With array pattern located at +45° and -45° polarization, you can improve signal strength in a crowded area with possible signal interference. It improves signal strength and coverage in 5GHz band, towards a concentrated enhanced direction.

This panel antenna is easy to mount and install on flat areas such as wall or window. Designed for outdoor elevated installation with high sustainability in strong wind. With IP-67 rating, it is completely protected against dust and humidity ingress.



1

1. N jack

1

## Key Features

- Operates in 5GHz band, according to IEEE 802.11a/n specifications
- Antenna diversity at 18dBi high gain performance
- Dual-Polarization to avoid interference
- Easy to install on the wall surface
- Wideband frequency performance enables future growth and increases flexibility

## Related Product



**WAN-4232**  
23dBi Directional Outdoor Panel Antenna(5GHz)



**OAN-4101**  
10dBi Omni-directional Antenna (5GHz)

## Technical Specification

### Electrical Specification

**Frequency range**

5.15~5.875GHz

**Gain**

18dBi

**VSWR**

≤2.2

**Polarization**

Linear, ±45

**Horizontal HPBW**

15±5°

**Vertical HPBW**

15°±5°

**Sidelobes level**

-8dB (normalize level)

**Isolation**

-15dB

**Input impedance**

50 Ohm ±5 Ohm

**Connector**

N Female x 2

**Power handling**

10Watt

**Lightening protection**

PCB 94V-0

### Environmental & Mechanical Characteristics

**Survival wind speed**

216km/hr

**Temperature**

-40°C~ +80°C

**Humidity**

95% @ °C55

**Radome color**

Gray

**Radome Material**

ABS &amp; Aluminum

**Weight**

435g ± 20g

**Dimensions (L x W x H)**

256 x 227x 19mm

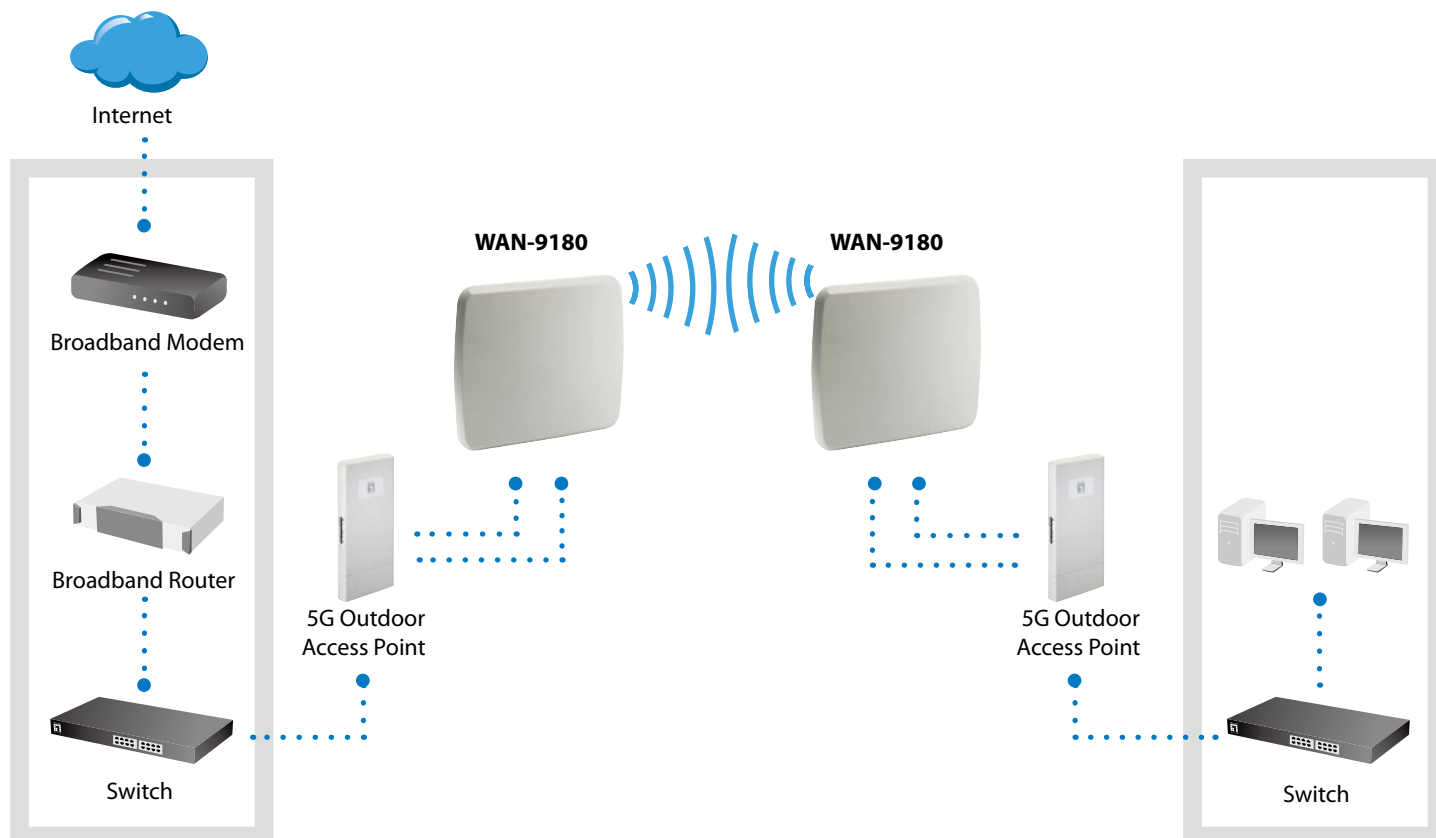
**Ingress Protection Rating**

IP-67

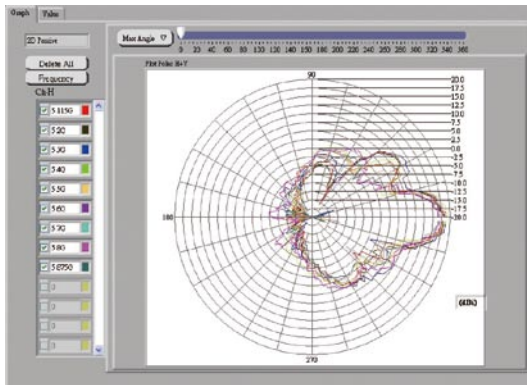
**Mount kit**

Wall mount &amp; Window Mount

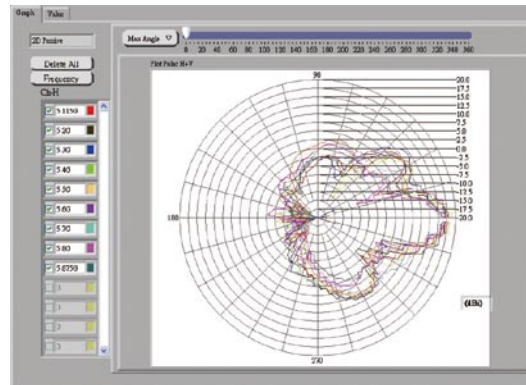
## Product Diagram



## Radiation Pattern



Radiation pattern (Port 1)



Radiation pattern (Port 2)

## Order Information

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

## Package Contents

WAN-9180 x 1 Set

QIG x 1 Set

Standard mounting kit (Pole mount x 1 & Wall mount x 1)

## Optional Accessories



**ANC-2310**

RPSMA plug to N plug-1m



**ANC-2330**

RPSMA plug to N plug-3m



**ANC-4130**

N Plug to N Jack Antenna  
Cable-3m



**ANC-4160**

N Plug to N Jack Antenna  
Cable-6m



**ANA-6100**

6G Outdoor Lighting Arrestor

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