



4ipnet ANT-PD515923 is a N-type high gain 23 dBi outdoor panel antenna that is professionally engineered and manufactured from the highest quality components. The antenna is specifically designed for operation in the 5.1-5.9 GHz band, supporting wireless transmission under IEEE 802.11a/n standard.

The rust-proof and watertight ANT-PD515923 is made with UV stabilized ABS plastic to sustain long periods of outdoor exposure. To ensure the quality of the antenna, all antennas undergo a strict quality test. The antenna also has the capability of being rotated to alter its polarity, accommodating various deployment needs.

Included with the antenna is a mounting bracket that allows the antenna to be mounted on masts with up to 2-inch outside diameter. The "L" style saddle used to mount the antenna can also be adjusted up or down 30° to support multiple antenna configuration. Users looking for a high-quality antenna should look no further.

ANT-PD515923 is a rugged outdoor antenna that offers flexible deployment options, supports long-range wireless transmissions, and provides extreme performance.

## Specifications

### Electrical Specifications

- Frequency Range: 5125 – 5875 MHz
- V.S.W.R  $\leq$  1.5 :1
- Return Loss  $\geq$  -15db
- Antenna Type: PCB Patch Array (8x8)
- Gain: 23dBi
- Polarization: Vertical or Horizontal
- Maximum Power: 15W
- Vertical Beam-width: 10°
- Horizontal Beam-width: 8°
- Impedance: 50 Ohm
- Connector: N-Female

### Mechanical Specifications

- Dimension: 370mm \*370mm
- Depth: 25mm
- Weight: 990g
- Wide Survival: >120MPH
- Radome Material: ABS + UV Resistance
- Operating Temperature: -40°C to +60°C
- Down-tilt: "L " Style, 0 ~ 28 degree
- Mounting/Clamps: 32-45mm/U-bolt
- RoHS Compliant: Yes

## Applications & Features

### Applications

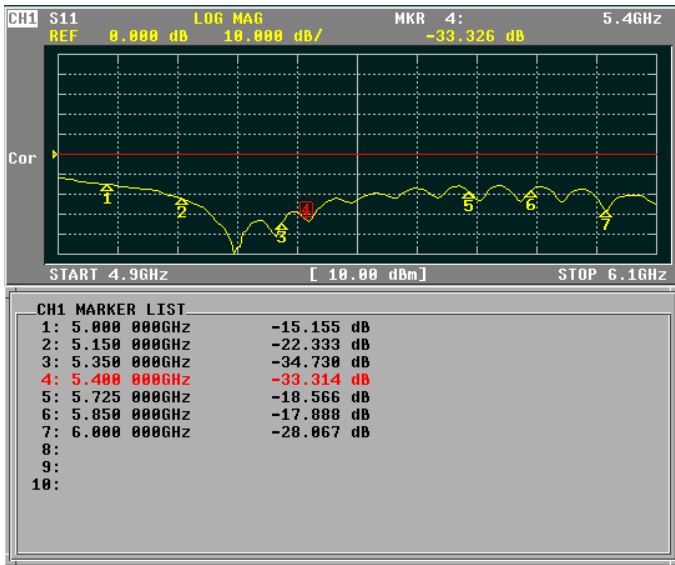
- Outdoor Wi-Fi access
- Wireless backhaul
- Wireless video surveillance
- Long range point-to-point
- Point-to-multipoint

### Features

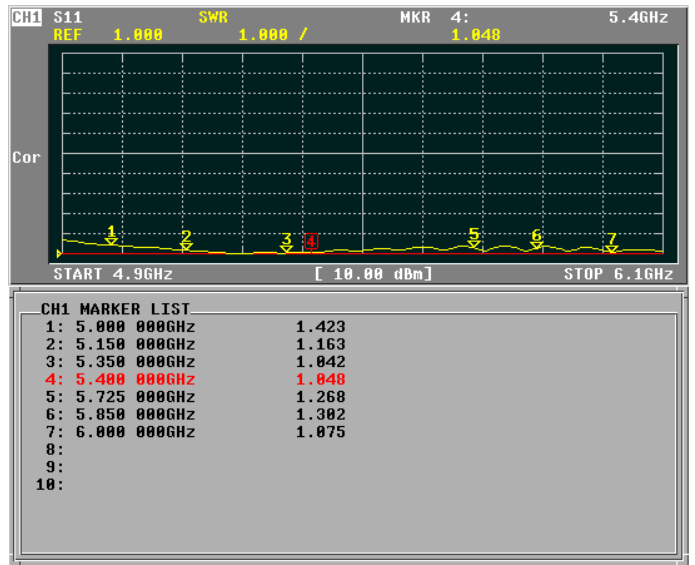
- Superior performance
- Light-weight
- All-weather operation
- DC short lightning protection
- Includes tilt and swivel mast mount
- Ultra-wide frequency
- Adjustable vertical or horizontal polarization

# Return Loss and V.S.W.R.

## Return Loss



## V.S.W.R



# Vertical and Horizontal Pattern

## Vertical Pattern Photos



## Vertical Pattern

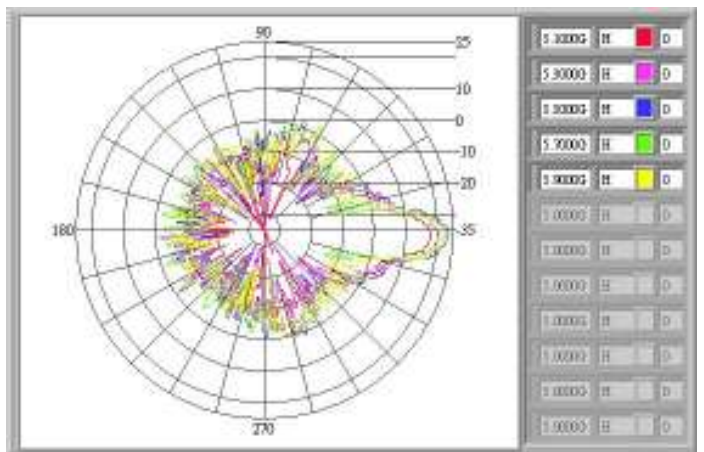
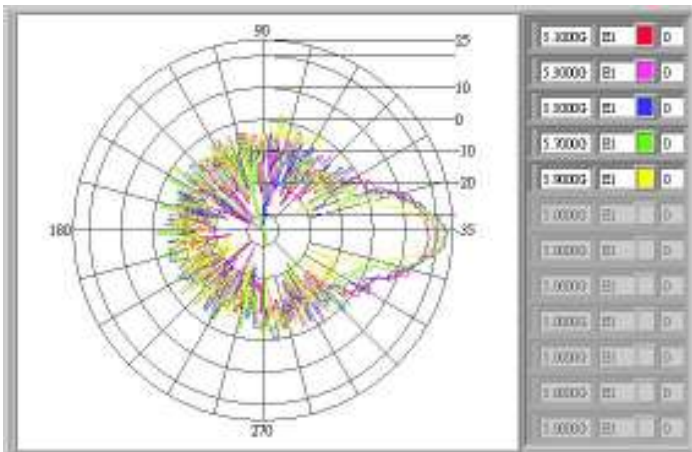
E-plane co-pol --- 3-dB beam-width= 10 Deg

## Horizontal Pattern Photos



## Horizontal Pattern

H-plane co-pol --- 3-dB beam-width= 8 Deg

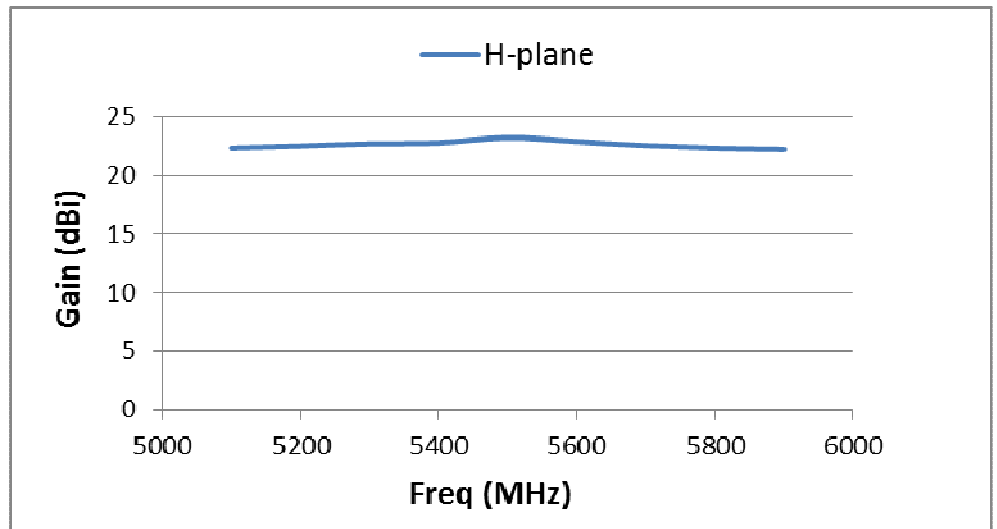


## Antenna Gain Curve

### H-Plane

MHz	dBi
5100	22.36
5200	22.52
5300	22.73
5400	22.8
5500	23.25
5600	22.91
5700	22.56
5800	22.35
5900	22.25

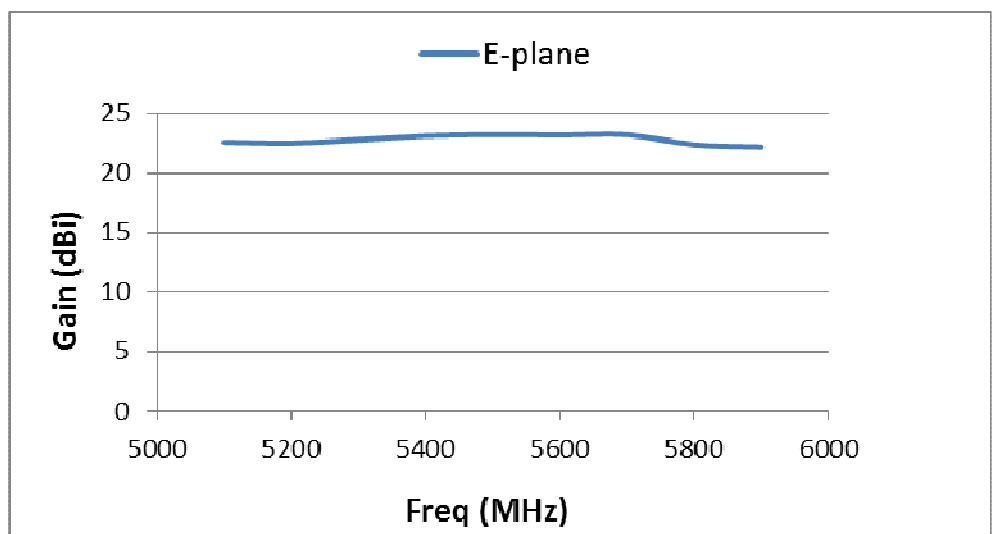
Average 22.64



### E-Plane

MHz	dBi
5100	22.56
5200	22.47
5300	22.78
5400	23.1
5500	23.2
5600	23.16
5700	23.19
5800	22.36
5900	22.15

Average 22.77

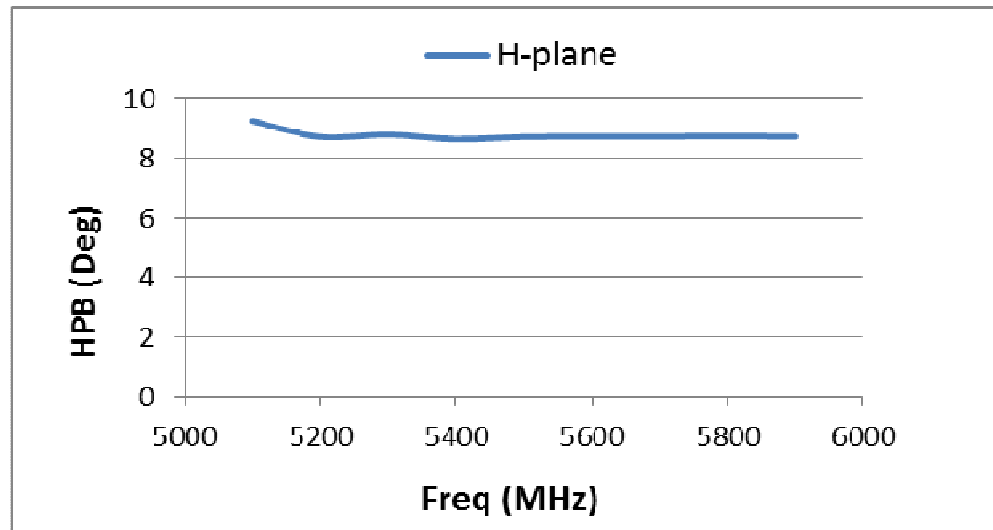


## Antenna -3dB Beam-width Curve

### H-Plane

MHz	Deg
5100	9.25
5200	8.73
5300	8.81
5400	8.65
5500	8.73
5600	8.74
5700	8.74
5800	8.76
5900	8.74

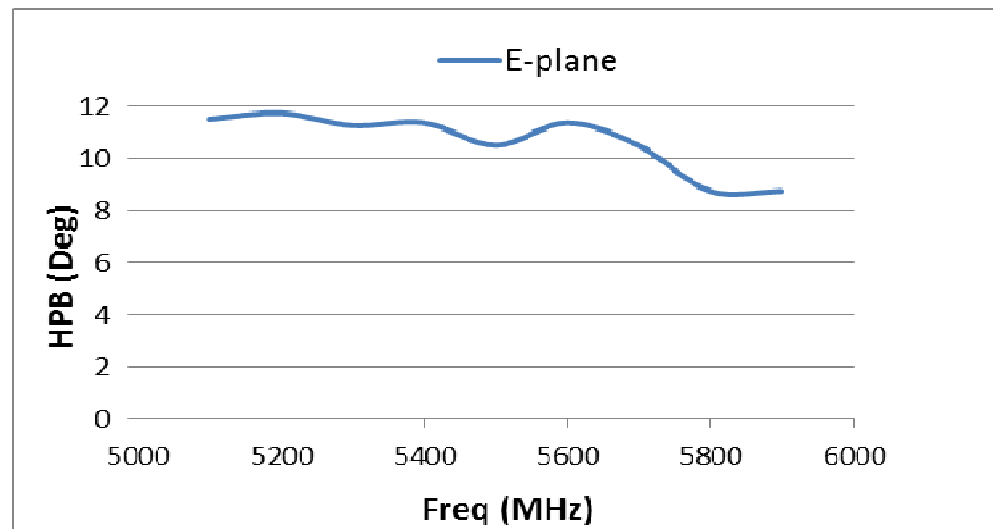
Average 8.79



### E-Plane

MHz	Deg
5100	11.5
5200	11.73
5300	11.25
5400	11.36
5500	10.49
5600	11.36
5700	10.49
5800	8.74
5900	8.74

Average 10.63

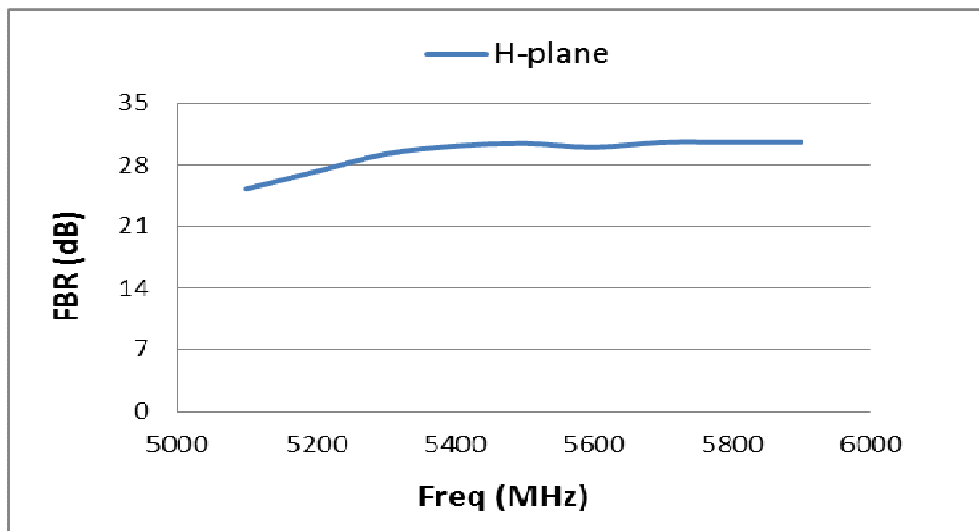


## Antenna FBR Curve

### H-Plane

MHz	dB
5100	25.37
5200	27.31
5300	29.3
5400	30.2
5500	30.5
5600	30.06
5700	30.62
5800	30.65
5900	30.66

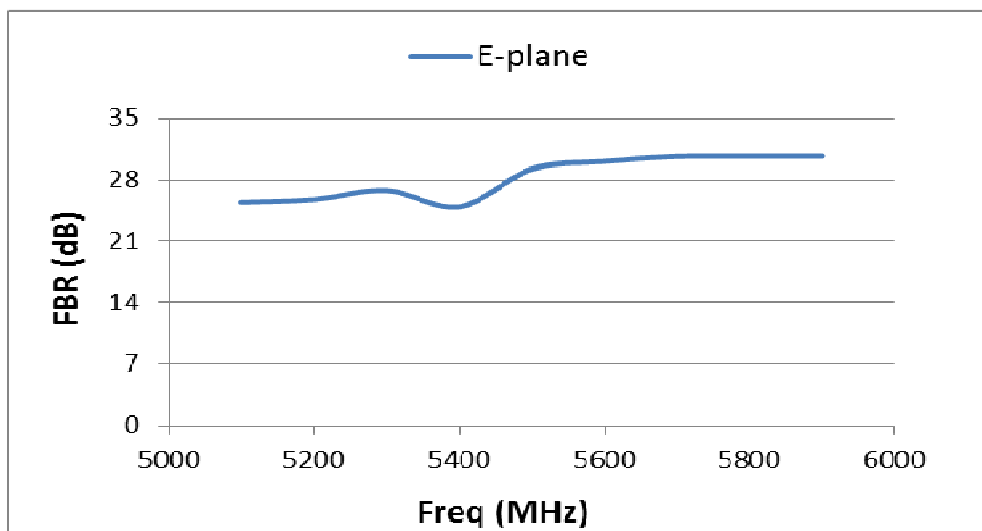
Average 29.41



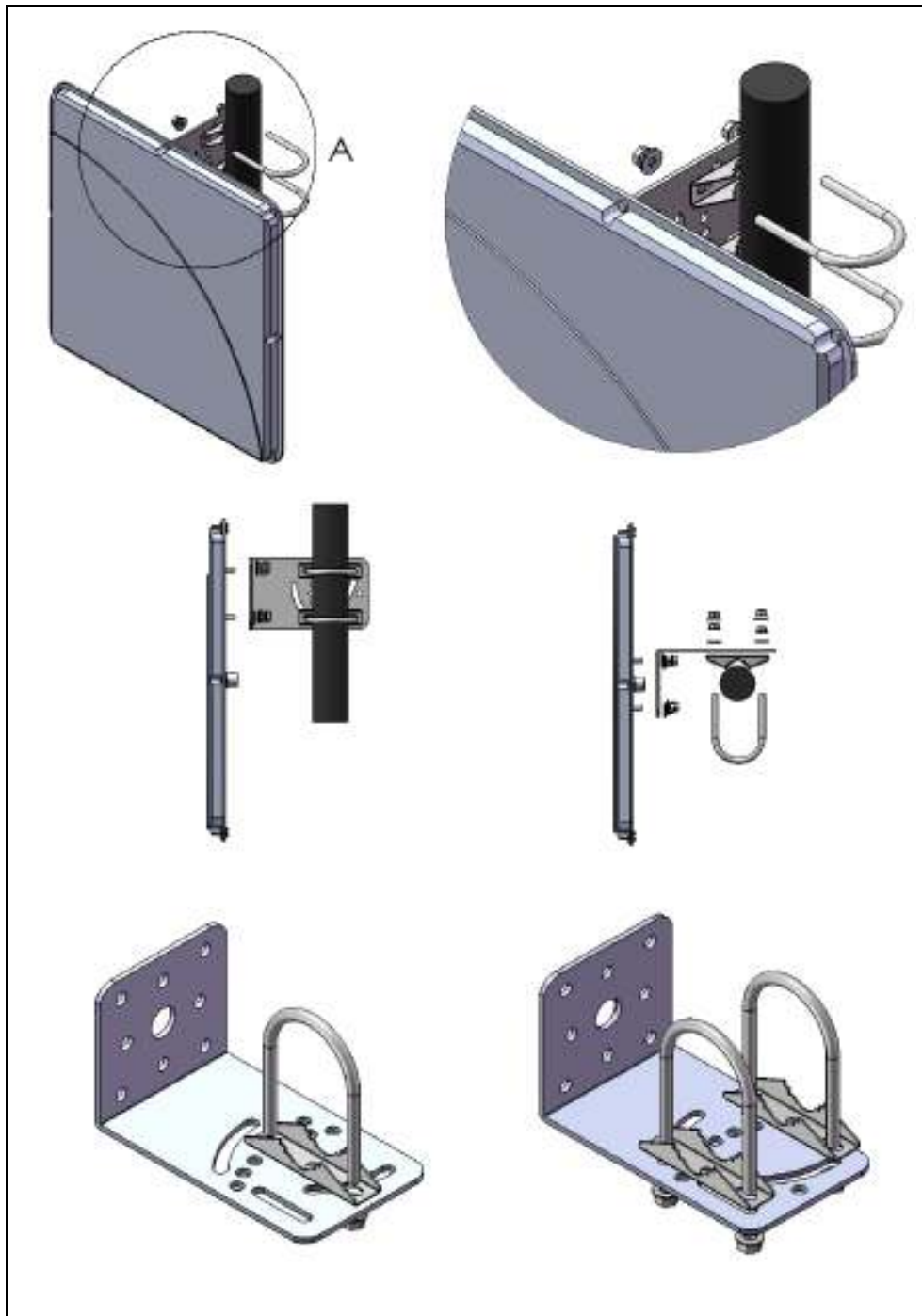
### E-Plane

MHz	dB
5100	25.37
5200	25.71
5300	26.77
5400	24.85
5500	29.22
5600	30.06
5700	30.62
5800	30.65
5900	30.66

Average 28.21



# Mounting Kit and Installation Guide



**1.**  
Place the bracket  
Place the U shape ring

**2.**  
Winding waterproof tape

**3.**  
**Finish**

