HT-W-33 LoRa Antenna

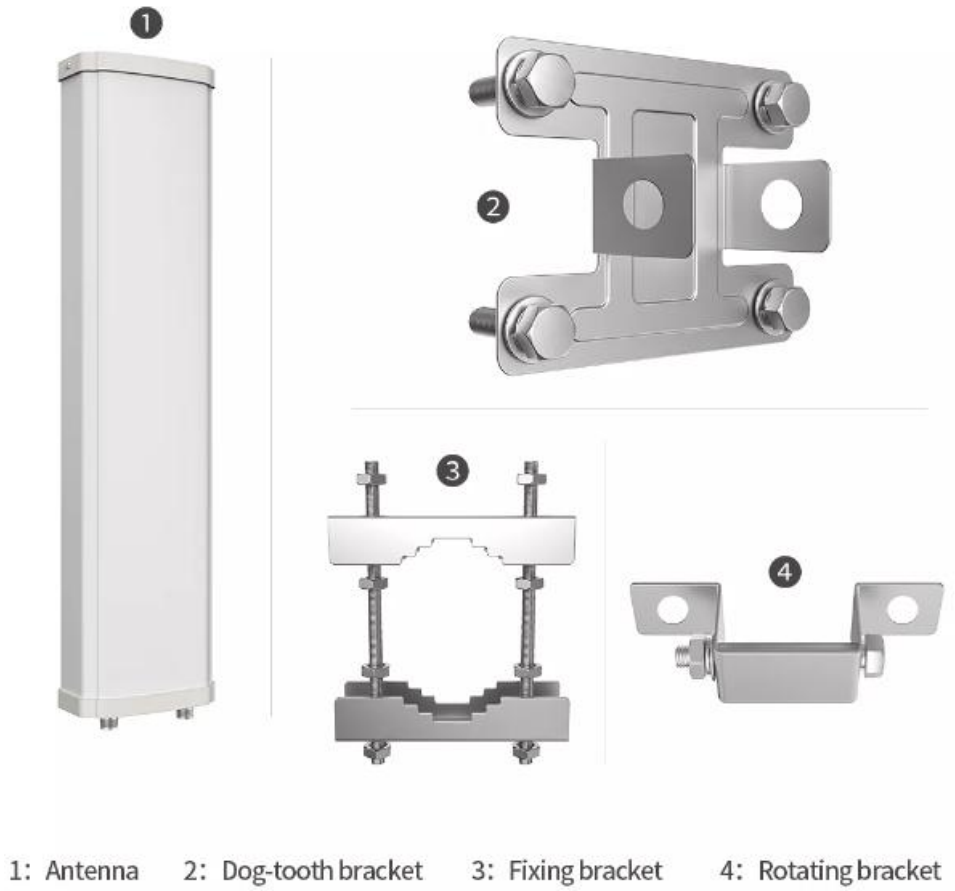
2.4G/5.8G 15-18DBi Panel Antenna

https://heltec.org

1. Product Overview:

This is our professionally engineered and manufactured quality sector (panel) antenna. We have designed and manufactured this antenna for use with WiFi (WLAN) or other 2.4 GHz ISM band applications. This model offers 17dBi gain and 90° horizontal beam width. It was built to withstand all weather conditions.
The antenna includes mounting hardware. It has up to 20° of adjustable up or down tilt.

Applications:
802.11b/g/n WiFi Networks
• IP Surveillance Video
• Public Wireless Hotspots
• Campus, Corporate facility, or Government Networks
• Wireless Internet Service Provider (WISP) Deployments
• Base Stations
• Repeater & Bridges
• Any 360° Point to Multi Point Application



1: Antenna 2: Dog-tooth bracket 3: Fixing bracket 4: Rotating bracket

SECTOR PLATE ANTENNA

DB58-90VH16A / DB24-90VH14A

WATER PROOF

FAR TRANSMISSION

DUAL FREQUENCY

HIGH EFFICIENCY GAIN

SECTOR PLATE ANTENNA

DB24-90VH14A

Dust Proof

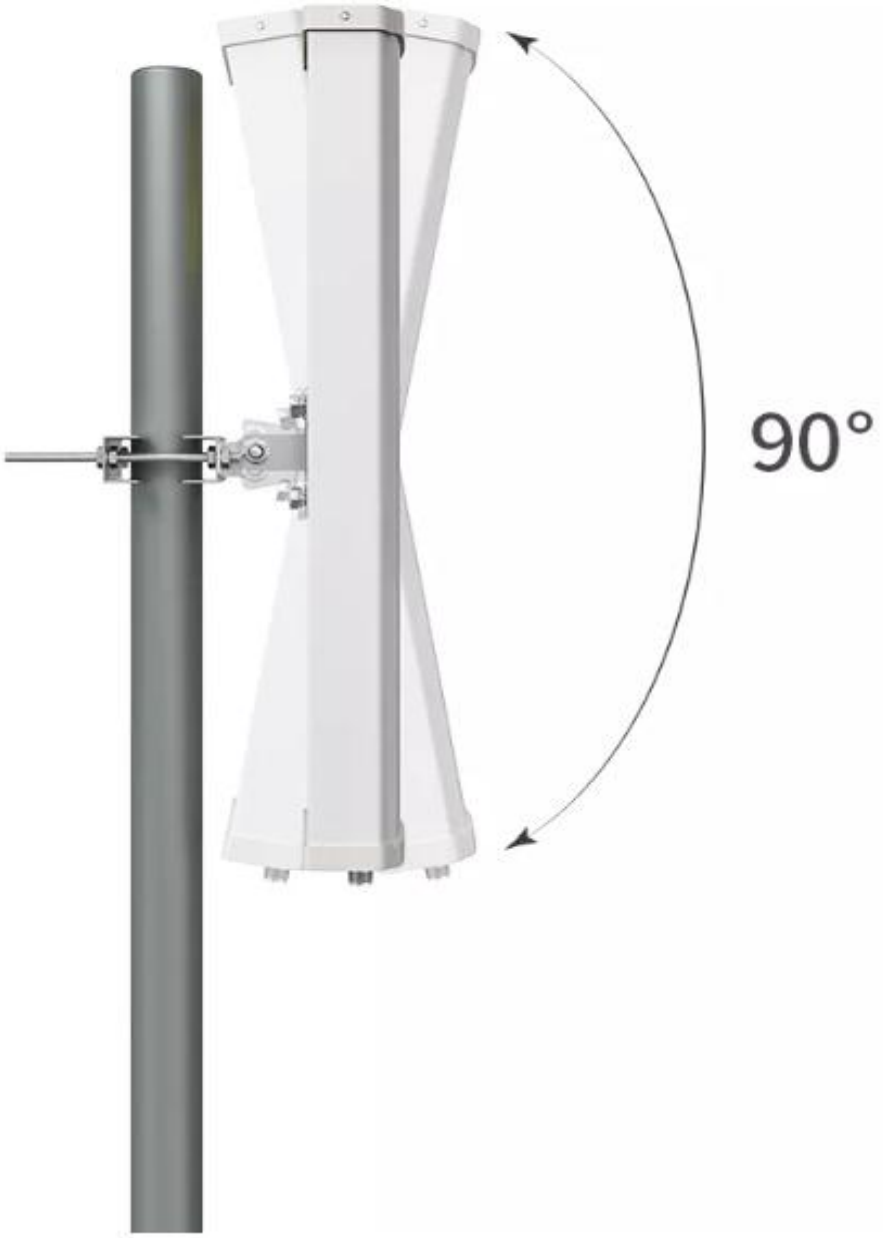
Rainproof

Antifreeze

Undeformed

IT CAN ROTATE 90 DEGREES

WHEN FIXED, IT CAN ROTATE 90 DEGREES



2. Specifications:

Main technical specifications			
Frequency range（MHZ）	2.4G/5.8G MHz	Frequency Range (MHZ)	2.4G/5.8G MHz
The characteristic impedance(Ω)	50	Impedance(Ω)	50
Gain(dBi)	15-18	Gain(dBi)	15-18
The output voltage Standing wave ratio	≤2.0	VSWR	≤2.0
Polarization Type	Vertical	Polarization	Vertical
Power Capacity (w)	50	Power Capacity (w)	50
Physical Properties			
Operating Temperature(°C)	-40~80	Operating Temperature(°C)	-40~80
The Connection method	N-K	Connector Type	N-K
Color	Gray	Color	Gray
Radome Material	UV protected ABS	Radome Material	UV protected ABS
Storage Temperature(°C)	-65~85	Storage Temperature(°C)	-65~85

3. Test report:

4. Common issues:

- The antenna frequency must match the frequency of the wireless device, otherwise the communication effect is not good;
- The lower the communication frequency, the longer the wavelength, the better the diffraction performance.
- When there is a linear communication obstacle, the communication distance will be attenuated accordingly.
- Note the antenna radiation direction. Incorrect antenna installation direction may result in a short transmission distance.
- Sea water has a strong ability to absorb radio waves, so the seaside test results are not good;