



Installation Guide

2x2 MIMO Dish Antenna

TL-ANT2424MD & TL-ANT5830MD

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Introduction

The TL-ANT2424MD, 2.4GHz 24dBi 2x2 MIMO Dish Antenna, can be used together with the outdoor wireless Base Station WBS210 to achieve a stable long-distance point-to-point signal transmission.

The TL-ANT5830MD, 5GHz 30dBi 2x2 MIMO Dish Antenna, can be used together with the outdoor wireless Base Station WBS510 to achieve a stable long-distance point-to-point signal transmission.

Specifications

Electrical Specifications	TL-ANT2424MD	TL-ANT5830MD
Frequency Range	2.3 - 2.7 GHz	5.0 - 6.0 GHz
Gain	24 dBi	30 dBi
VSWR	1.8 Max	1.8 Max
HPOL Beamwidth (3 dB)	6°	6°
VPOL Beamwidth (3 dB)	6°	6°
Elevation Beamwidth (3 dB)	6°	6°
F/B Ratio	32 dB Min	34 dB Min
Polarization	Horizontal & Vertical	Horizontal & Vertical
Impedance	50 Ω	50 Ω
Connector	RP-SMA Female	RP-SMA Female

Mechanical Specifications

Antenna Dimension	Φ 600 mm
Weight	6.0 Kg
Rated Wind Velocity	241 Km/h
Mounting	Pole Mount

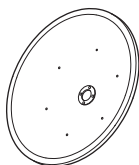
Safety Notice

Heed all warnings:

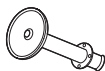
- Mount the antenna at a safe location, far away from power lines, lamp posts, and other electrical cables.
- Do not mount the antenna in the rain or thunderstorm.
- Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.
- For your own safety, please seek a qualified service technician for assistance.

Package Contents

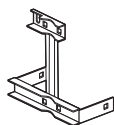
Below displays the package contents of the TL-ANT5830MD. The TL-ANT2424MD comes with the Antenna Feed and RF Cables pre-attached.



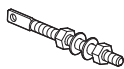
Dish Reflector



Antenna Feed



Antenna Mount Bracket



Elevation Rod



Protective Shroud



RF Cables
(Qty. 2)



Pole-mount Clamps
(Qty. 2)



M10x150 Carriage Bolt Assemblies
(Qty. 4)



M10x35 Carriage Bolt Assemblies
(Qty. 3)



M4 Bolts
(Qty. 4)

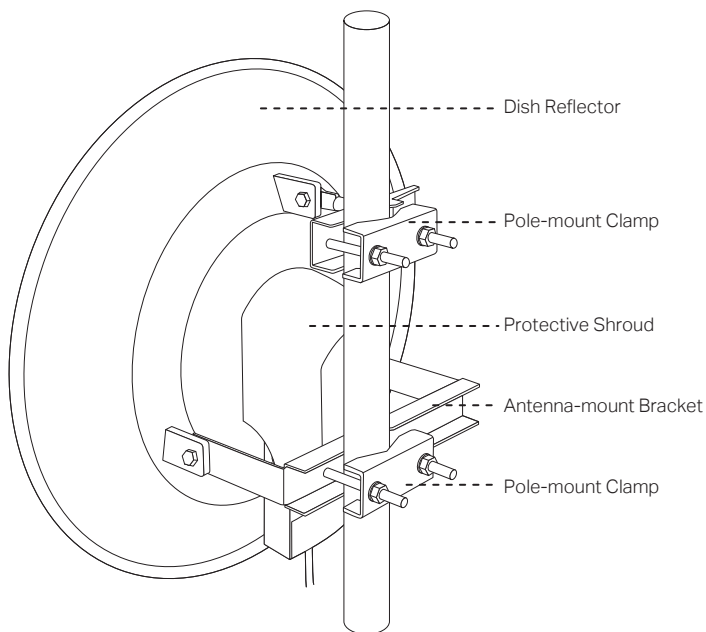


Installation Guide

Installation Requirements

- Outdoor Wireless Base Station (sold separately)
- Phillips Screwdriver
- Wrenches

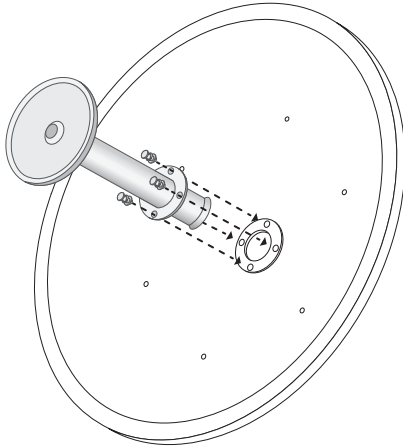
Hardware Overview



Hardware Installation

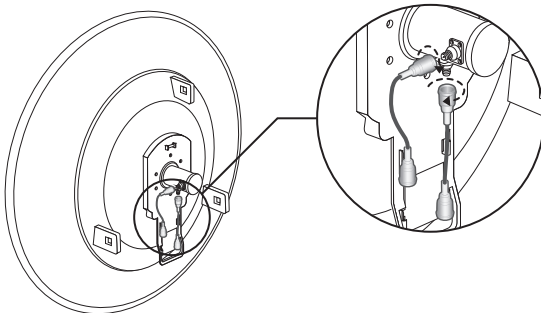
1. Secure the Antenna Feed to the Dish Reflector using the four M4 Bolts and a Phillips screwdriver.

Note: Do not handle the Dish Reflector by the Antenna Feed once the feed is installed.

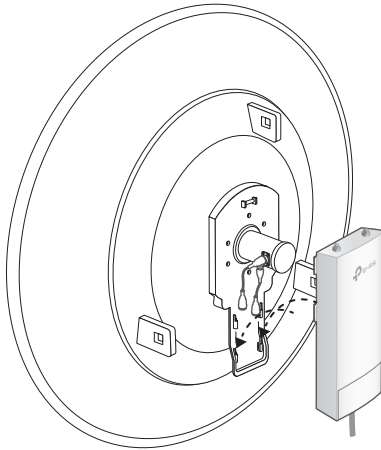


2. Connect the RF Cables to the RF Connectors on the Antenna Feed.

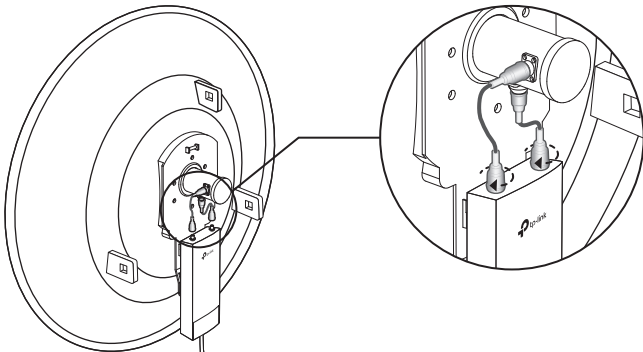
Note: TL-ANT2424MD doesn't require this step, please go directly to step 3.



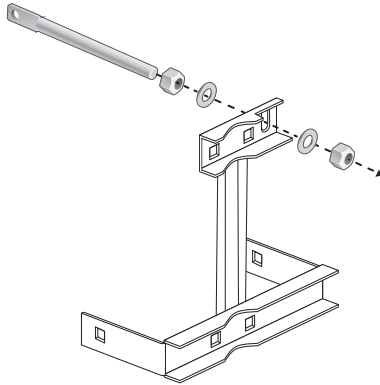
3. Attach the Base Station to the Dish Reflector as follows:
- a. Align the mounting tabs on the back of the Base Station with the four mounting slots on the Base Station mounting bracket.
 - b. Slide the Base Station down until it locks into place.



4. Connect the other ends of the RF Cables to the Base Station.

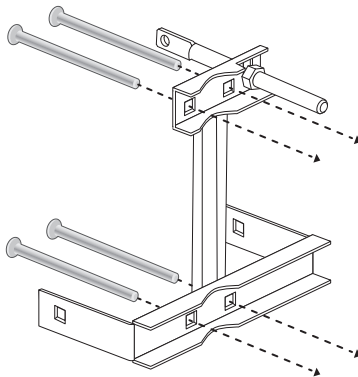


5. Attach the Elevation Rod to the Antenna-mount Bracket using the flat washers and nuts as shown below.

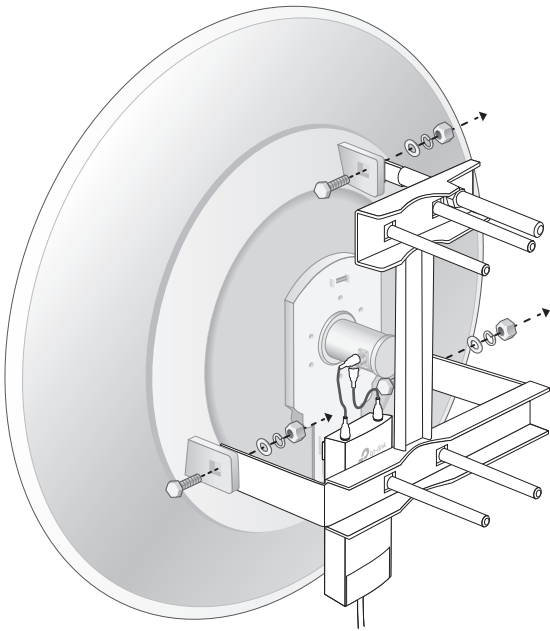


6. Attach the M10x150 Carriage Bolt Assemblies to the Antenna-mount Bracket:

- a. Remove the flat washer, spring washer, and nut that are threaded on each M10x150 Carriage Bolt Assembly. Set them aside as they will be used to secure the antenna to a pole in step 8.
- b. Insert the four M10x150 Carriage Bolts into the Antenna-mount Bracket.



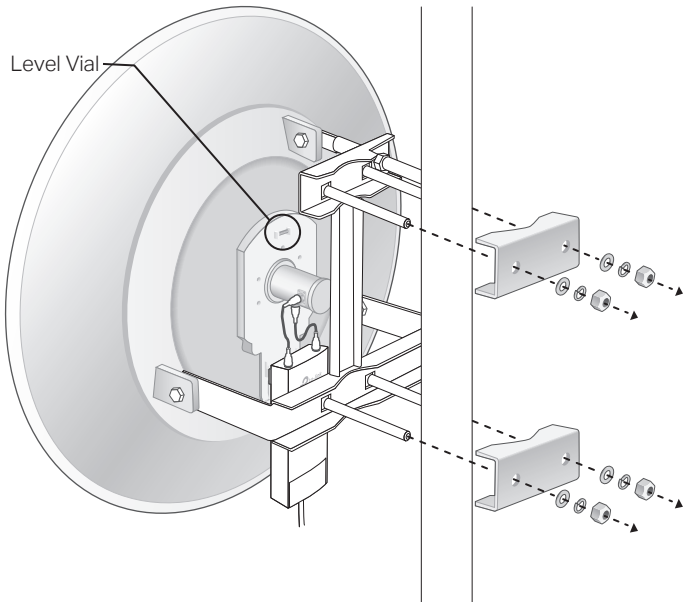
7. Attach the Dish Reflector to the Antenna-mount Bracket:
- a. Secure one M10x35 Carriage Bolt Assembly to attach the Dish Reflector to the Elevation Rod.
 - b. Secure two M10x35 Carriage Bolt Assemblies to attach the Dish Reflector to the lower section of the Antenna-mount bracket.



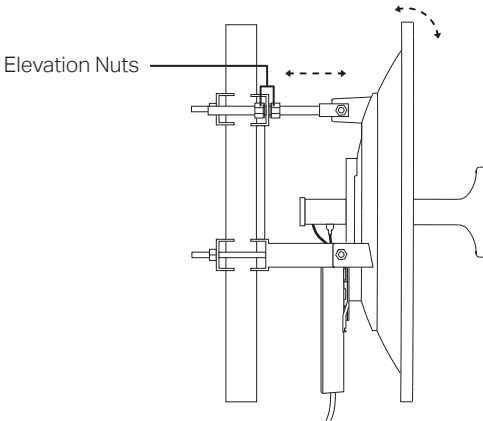
8. Mount the antenna assembly to the pole using the two Pole-mount Clamps and the four sets of flat washers, spring washers and nuts of the M10x150 Carriage Bolt Assemblies.

Note:

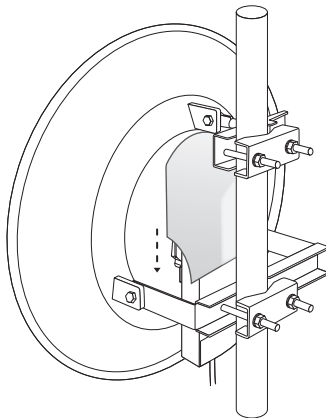
1. Pole diameter ranges from 1.5 in to 4.0 in.
2. Do not over-tighten these bolts and nuts to allow angle adjustment later.
3. In step 8 to 9, use the Level Vial to ensure proper alignment.



9. Adjust the antenna azimuth and elevation angles with the front facing the intended signal receiving devices to achieve maximum signal strength:
- a. To adjust azimuth, loosen the four nuts on the Pole-mount Clamps slightly to pivot the antenna, then tighten the nuts.
 - b. To adjust the elevation angle, tighten or loosen the Elevation Nuts on the Elevation Rod to the desired tilt.



10. Slide the Protective Shroud down over the Base Station until it locks into place.





For technical support and other information, please visit
<http://www.tp-link.com/support>, or simply scan the QR code.

