



Features:

- Specially designed for MIMO applications
- Four RF Channel N inputs
- Quad Polarization for field diversity
- High Efficiency 802.11 ac approved

Performances:

- 5.1-5.9 GHz gain 4x16 dBi
- Polarization Vertical, Horizontal & Dual Slant (±45)
- Maximum power 10 watts CW
- VSWR: < 1:1.35 @ Center freq.
- Aperture E plane and H plane:
 - 25° @ -3 dB
- Front to Back ratio
 - > -30 dB
- Isolation
 - Port to port 36 dB
 - Cross polarization -18B

Mechanicals:

- Dimensions 305x305x15 mm
- Connector 4xN-type, female
- Weight 1.5 Kg
- Mounting support MNT22
- IP-67 Water & Dust Resistant
- Radome Polycarbonate UV protected
- Back Plane Aluminum with chemical passivation
- Operating temperature range -55° to +65°
- Vibration conformity IEC60721-3-4
- Win load 200 km/h
- Flammability UL94
- Humidity ETS300 019-1-4,EN 302 085 (Annex A1.1)
- Salt Fog Compliant to IEC 68-2-11



Mounting instructions - Azimuth and Elevation Adjustable Mount MNT-22 REV. 5

Fig. 1

1. Align holes of item 2 with 4 studs on back plane of the antenna (not shown).
2. Connect item 2 to the antenna with spring washers (11), plain washers (10) and nuts (12).
3. Tighten the nuts at a torque of 30 Lbs x In.

Fig. 2

4. Align item 3 with item 2 so teeth of item 2 face teeth of item 3. Connect with items 6, 7, 8, 13. Leave screw slightly loose.

Fig. 3

5. Align item 5 with item 3 so teeth of item 5 face teeth of item 3. Connect with items 6, 7, 8, 13. Leave screw slightly loose.

Fig. 4

6. Attach items 4, 5 to the pole as illustrated, and connect them using items 6, 7, 9.
7. Close screws (9) one and another in turn up to tightening torque of each screw is 30...35 Lbs x In.
8. Distance between ends of items 4, 5 on one and another side must be equal. **NO SKEWNESS ALLOWED.**
9. Adjust the desired angle, and fully tighten the loose screws (paragraph 4, 5) at a torque of 30 Lbs x In.

Fig. 5

Wall Mounting

10. Make assemblies as illustrated in Fig. 1, 2.
11. Attach item 5 to the wall. Fasten it with screws 1/4" or M6 using holes 'A'. (Screws not shown.)
12. Align item 3 with item 5 so teeth of item 3 face teeth of item 5. Connect as illustrated in Fig. 3.
13. Adjust the desired angle, and fully tighten the loose screws (paragraph 4, 5) at a torque of 30 Lbs x In.

NOTE:
1. MOUNT SUITABLE FOR POLES Ø1"-4".

Parts List		
ITEM	QTY	DESCRIPTION
1	1	PCBE 1"-4" (NOT SUPPLIED)
2	1	MNT-22-1
3	1	MNT-22-2
4	1	MNT-22-4
5	1	MNT-22-3
6	4	Helical Spring Lock Washer St. St. #516
7	4	Plain Washer St. St. #516
8	2	Hex Cap Screws St. St. NC 5/16-18 x 1.25"
9	2	Hex Cap Screws St. St. NC 5/16-18 x 3"
10	4	Plain Washer St. St. #14
11	4	Helical Spring Lock Washer St. St. #14
12	4	Hex Nut St. St. NC 1/4-20
13	2	Hex Nut St. St. NC 5/16-18

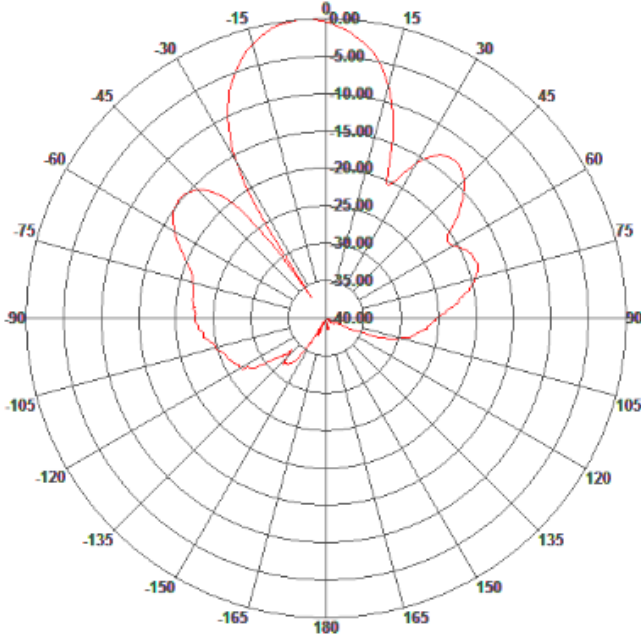
Radiations Patterns

Frequency
Gain, typ.

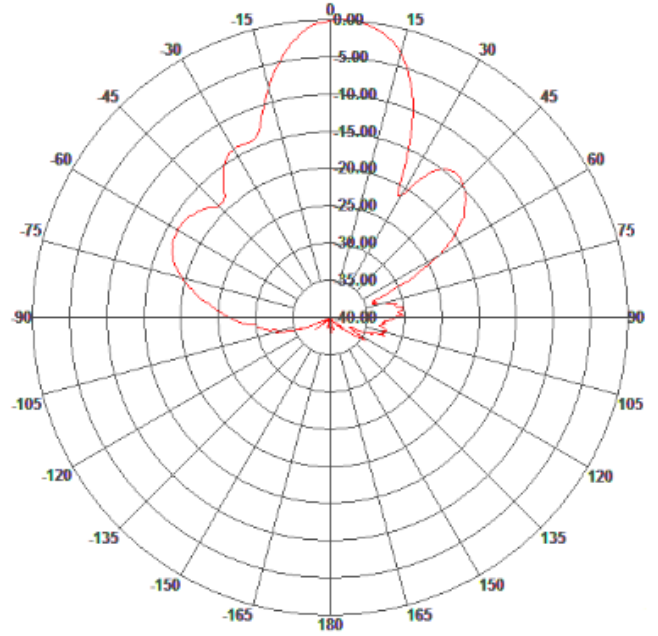
5500 MHz
4 x 16 dBi

Vertical Polarization

Azimuth Pattern

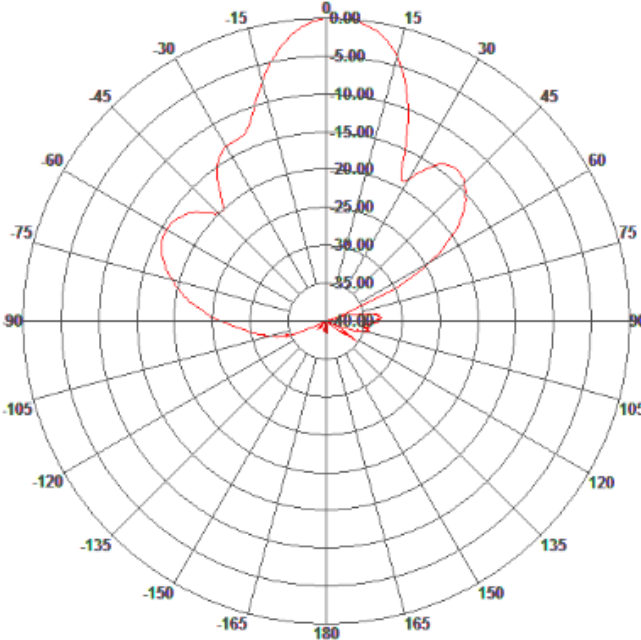


Elevation Pattern

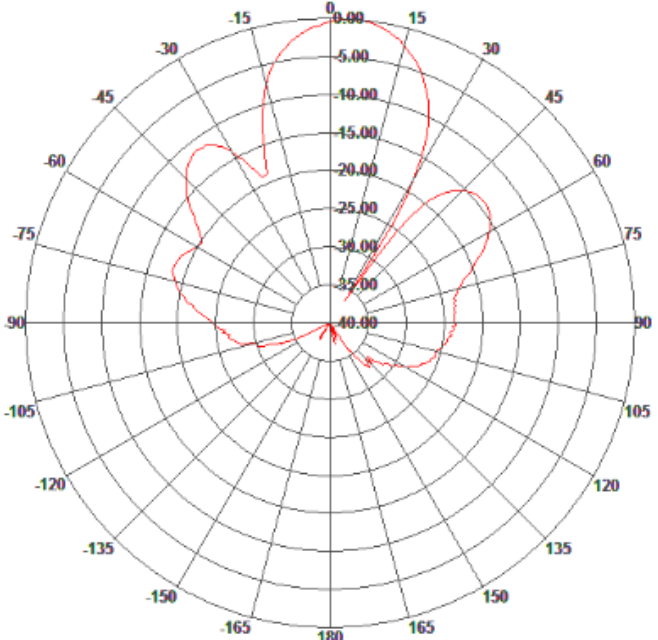


Horizontal Polarization

Azimuth Pattern



Elevation Pattern

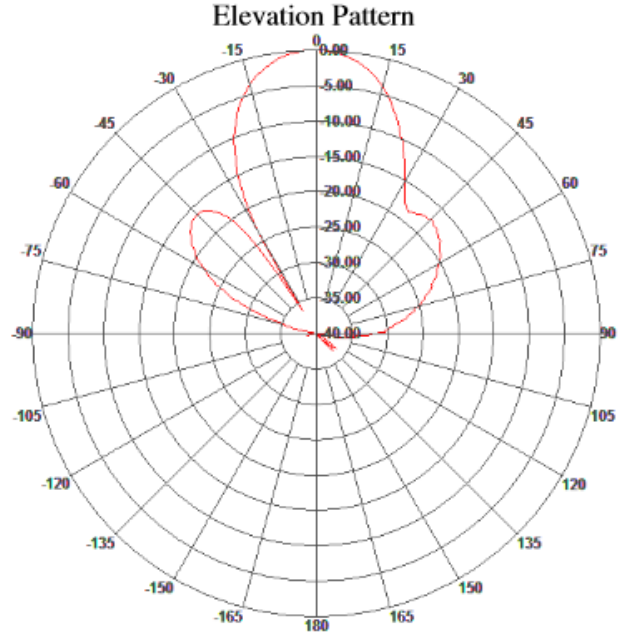
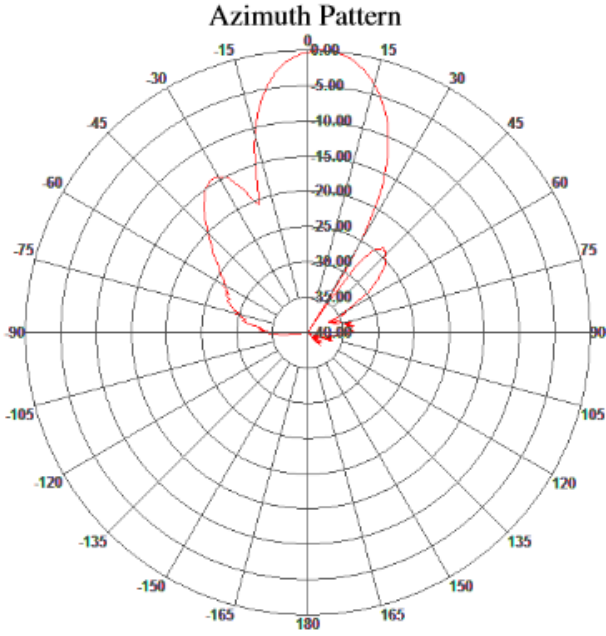


Radiations Patterns

Frequency
Gain, typ.

5500 MHz
4 x 16 dBi

Slant +45° Polarization



Slant -45° Polarization

