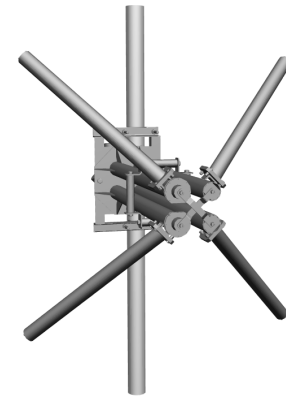


Band II 2 crossed dipoles circular/elliptical polarization antenna system • Side-mounted installation

Electrical Specifications

| | | | |
|--|---|--------------------------------|---------------|
| Frequency range | 87.5-108 MHz | | |
| Peak gain | 0.7 dB (ref. $\lambda/2$ dipole, with pole) | | |
| 3 dB beam width | Horizontal: 220° | Vertical: 140° | |
| Polarization | Circular / Elliptical | | |
| Impedance | 50 Ohm | | |
| VSWR | $\leq 1.22:1$ | | |
| Maximum power handling (per connector) | 5 kW (2.5 kW) | 10kW (5 kW) | 14 kW (7 kW) |
| Connector type (2 per antenna) | 2 x DIN 7/16 | 2 x EIA 7/8" | 2 x DIN 13/30 |
| Pressurization | Non pressurized | Gas barrier on input connector | |
| | Fully pressurized as an option | | |

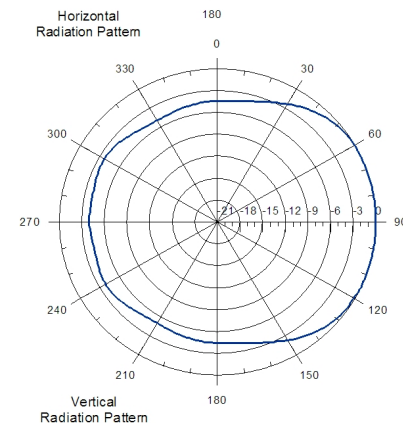
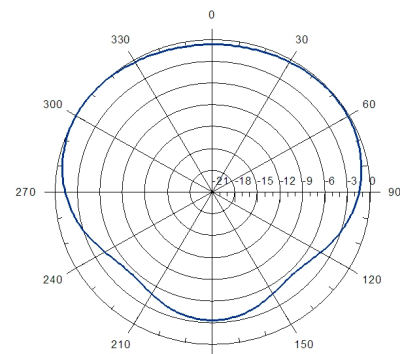


Mechanical & Environmental Specifications

| | |
|------------------------|-------------------------------------|
| Materials | Hot dip galvanized steel |
| Dimensions (W x D x H) | 924 x 959 x 924 mm |
| Maximum wind speed | 200 km/h |
| Wind load | 315 N (@160 km/h) |
| Weight | 30 kg |
| Clamp type | To \varnothing 80 – 115 mm pipe |
| Vertical spacing | 0.8 λ 0.9 λ typical |
| Grounding | DC grounded |
| Temperature range | -40°C to +80°C |
| Humidity | 100% |

Antenna System Characteristics

| Number of Bays | Number ant. per bay | Peak gain (dBd) | Weight (kg) | Wind load (@160 km/h) | System height (mm) |
|----------------|---------------------|-----------------|-------------|-----------------------|--------------------|
| 1 | 1 | 0.7 | 30 | 0.3 kN | 924 |
| 2 | 1 | 3.7 | 60 | 0.6 kN | 3533 |
| 4 | 1 | 6.7 | 120 | 1.2 kN | 8750 |
| 6 | 1 | 8.5 | 180 | 1.8 kN | 13967 |
| 8 | 1 | 9.7 | 240 | 2.4 kN | 19185 |
| 10 | 1 | 10.7 | 300 | 3.0 kN | 24405 |
| 12 | 1 | 11.5 | 360 | 3.6 kN | 29623 |



NOTES:

- Radiation patterns and gain values at the table are including the effect of supporting pole
- Null fill, beam tilt, harness & feeder losses NOT INCLUDED
- Wind load & weight figures without considering cables, splitters & hardware.

The above specified gain must be understood for circular polarization

FM & DAB