Troll’s dual-polarized antennas, contain both horizontal and vertical polarizations in a single, lightweight aircraft rated package. The antennas are available in S and C bands.

Dual-polarized antennas maximize MIMO (Multiple Input Multiple Output) radio performance. By providing orthogonal RF paths the dual-stream capability of the radio can be realized. Dual-stream systems provide greater bit rate or increased robustness of the data link.

These antennas support 1x2, 2x2 and 4x4 channel MIMO systems. They work with any 802.11, WiMax, Wi-Fi, applications and are suitable for ground or airborne installations.
Maximize MIMO (Multiple Input/Multiple Output) Radio Performance

Dual-Polarized Omni Antenna
High-Performance, High-Gain Omni Antennas for Long-Range Point to Point Systems

SPECIFICATIONS

System Properties
- Connection: 2 x SMA Female
- MAX Input Power: 50 Watts
- Impedance: 50 Ohm
- VSWR < 2:1

Antenna Characteristics
- Type Vertical: Vertical Dipole
- Type Horizontal: Turnstile Slot
- Frequency Band: S Band - 2.3 GHz - 2.5GHz
- Frequency Band: C Band - 4.7 GHz - 5.3GHz
- Frequency Band: C Band - 5.3 GHz - 5.8GHz
- Vertical Beamwidth: 360°
- Horizontal Beamwidth: 360°
- Antenna Gain Vertical: 3dBi minimum
- Antenna Gain Horizontal: 3dBi minimum
- Elevation Horizontal: +/- 26°
- Elevation Vertical: +/- 30°
- Polarization: Vertical/Horizontal
- Cross Polarization: 20dB Typical

Environmental
- Operating Temperature: -40°C to +80°C

Mechanical
- With Ground Plane: 2.3 GHz - 2.5GHz
  - 15" H x 1.125" W
- Without Ground Plane: 4.7 GHz - 5.3GHz
  - 12" H x 1" W
- 5.3 GHz - 5.8GHz
  - 11" H x 0.8" W

Mounting Options

Specifications subject to change without notice.