



High Performance Tolling Antenna

Highlights

- Specially designed for High Speed Tolling Systems
- Perfect read zone in ORT, Multi-Lane Free Flow, or Single Lane Plaza based All-Electronic Tolling (AET) Systems



Avior™

Product Description

Avior tolling antenna is designed and built specifically to be an over-the-road antenna for high speed tolling systems using passive tags.

With its unique and patented design, Avior creates an ideal read zone in either an ORT, Multi-Lane Free Flow or in a Single Lane Plaza based All-Electronic Tolling (AET) System.

Equipped with a focused narrow beam, Avior provides the power to assure that read rates at high speed are not only maximized, but also isolated to the desired read zone, avoiding cross-lane reads and adjacent lane interference.

Avior's reduced footprint and weight is unique in the market compared to competitive products. Its improved smaller size makes it perfect for more efficient and safer installation over roads. Economically speaking, its compact size reduces shipping and storage cost while makes installation easier.

Toll operators using passive tags require dependable and focused antennas to maximize read rates and automatic transactions. Avior has been created with the toll operator in mind.

Avior also has a wideband design allowing it to operate in the 865 – 928 MHz range, which makes it applicable for use across the globe.

Built from heavy duty aluminum with a full IP-67 housing, the Avior is meant to last in the harshest roadside environments.

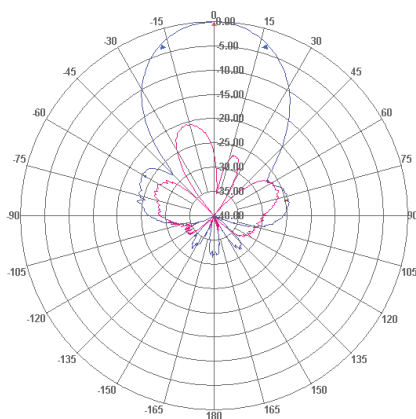
Your Success is Our Vision



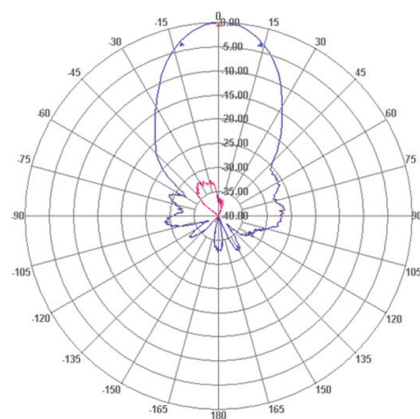
Specifications

| | |
|-----------------------|--|
| Dimensions | 714 x 534 x 31mm (28.11 x 21.02 x 1.22") |
| Weight | 6.3kg (13.89lbs) |
| Frequency Range | 865 - 928 MHz (Wideband) |
| Gain | 15 dBi \pm 1 dB |
| Return Loss | Below -15 dB |
| 3 dB Beamwidth | Azimuth (E-plane): 27.5° - 29° Elevation (H-plane): 34° - 36° |
| Polarization | Linear Horizontal |
| Side Lobes Level | Below -20 dB |
| Cross Polarization | Below -18 dB |
| Front to Back Ratio | Below -30 dB |
| Maximum Input Power | 6 Watt |
| Impedance | 50 Ω |
| Lightning Protection | DC Grounded |
| Operation temperature | at least -55°C to +71 °C (-67°F to +159.8°F) |
| Vibration | IEC 60721-3-4 / 30m / Random4M3 |
| Shock | IEC 60721-3-4 |
| Connector | N Type Female |
| IP Rating | IP 67 |
| RoHS Compliance | Yes |
| Mounting Kit | Included |

Radiation Pattern



Elevation (H-plane)
Co- and Cross- Polarization Radiation Patterns



Azimuth (E-plane)
Co- and Cross- Polarization Radiation Patterns