STAR SYSTEMS INTERNATIONAL

Avior

High Performance Tolling Antenna

Highlights

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

Avior ™

Product Description

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

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

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-65 housing, the Avior is meant to last in the harshest roadside environments.

Your Success is Our Vision

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Enabling Smart Cities

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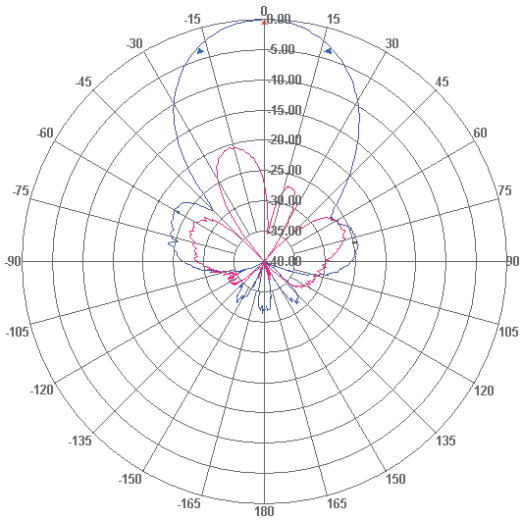
Datasheet Download

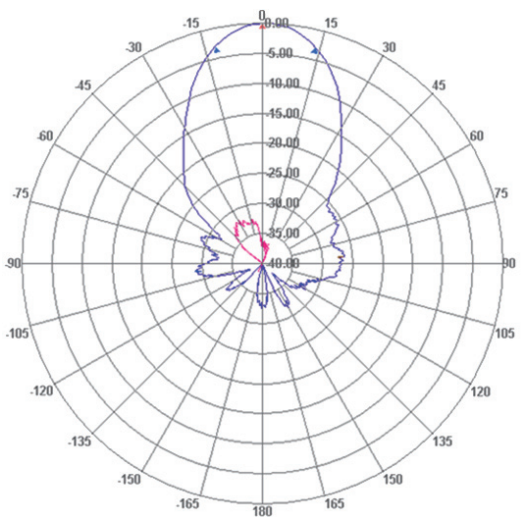
Specifications

Dimensions	714 x 534 x 31mm (28.11 x 21.02 x 1.22”)
Weight	6.5kg (14.33lbs)
Frequency Range	865 - 928 MHz (Wideband)
Gain	15 dBi ± 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
Connector	N Type Female
IP Rating	IP 65
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