AA3152 Universal Toll Antenna

TransCore's AA3152 Universal Toll Antenna (UTA) broadcasts and receives radio frequency (RF) signals in the 902 to 928 MHz frequency band.

For installations requiring a relatively symmetrical, three-dimensional reading area, the UTA offers a broadcast pattern of similar size and shape in both the horizontal and vertical planes. The UTA read area is ideal for toll lane applications because the read area has virtually no side or back lobes, helping to confine antenna coverage to a single lane width.

Only 2.25 inches (5.7 centimeters) in depth, the AA3152 antenna is ideally suited to applications requiring a low-profile antenna. The weatherproof enclosure provides favorable electrical characteristics, resistance to ultraviolet radiation, and maximum corrosion resistance.



Features

- Symmetrical broadcast pattern
- Weatherproof enclosure
- Low-profile design
- 902 to 928 MHz frequency band

Applications

- ► Toll
- Airport Ground Transportation
- Parking
- Security Access
- ► Electronic Vehicle Registration



AA3152 Universal Toll Antenna

COMMUNICATIONS

Frequency Range

902 to 928 MHz

Gain

14 dBi

Polarization

Linear-horizontal

Cross Polarization (with respect to main beam)

-20 dB

Side Lobes (with respect to peak of main beam)

< -25 dB (E-plane) and < -17 dB (H-plane)

VSWR

1.9:1

Impedance

50 ohms nominal

Half-Power Beam Width

E-Plane: 36° H-Plane: 38°

HARDWARE FEATURES

Connectors

Type N female

PHYSICAL CHARACTERISTICS

Dimensions

Size: 31.5 x 2.25 x 20 in (80 x 5.7 x 50.8 cm)

Weight: 26 lbs (11.7 kg)

Mounting Height

15 to 20 ft (4.6 m to 6 m) above lane 16 ft (4.9 m) optimum

Mounting Method

To support pipe with a maximum outer

diameter of 3.0 in. (7.6 cm)

Enclosure

Weatherproof radome

ENVIRONMENTAL

Operating Air Temperature

 -40° F to + 167°F (-40°C to +75°C)

Humidity

100% condensing

Vibration Tolerance

1 G_{RMS} 10 to 500 Hz

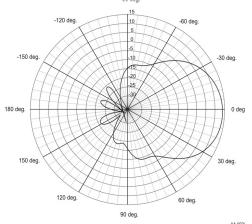
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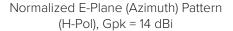
Check Tag

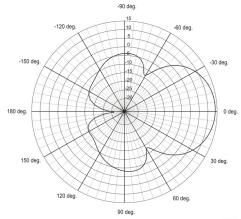
May be ordered with the AT5720 Check

Tag Installed

Antenna Radiation Patterns







Normalized H-Plane (Elevation) Pattern (H-Pol), Gpk = 14 dBi @915 MHz

For more information:

Sales Support 800.923.4824

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transcore.com





