

AA3152 Universal Toll Antenna

Features

- ▶ Toll lane suitability
- ▶ Symmetrical broadcast pattern
- ▶ Low-profile design
- ▶ Weatherproof enclosure



The 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 also ideally suited to applications requiring a low-profile antenna. The weatherproof enclosure provides favorable electrical characteristics, resistance to ultraviolet radiation, and maximum corrosion resistance.

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

36° E-plane and 38° H-plane

HARDWARE FEATURES

Connector

Type N female

PHYSICAL

Dimensions

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

Weight: 26 lb (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 Temperature

-40°F to +167°F (-40°C to +75°C)

Humidity

100% condensing

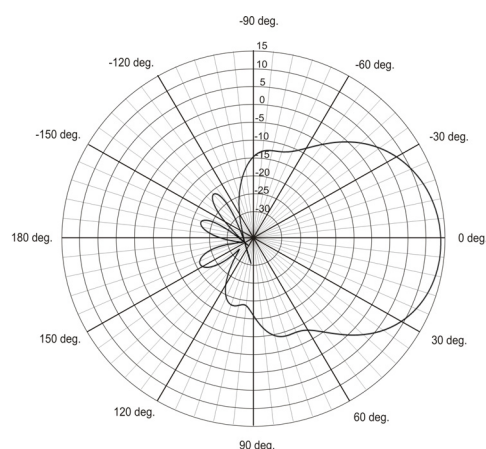
Vibration Tolerance

1 G_{rms}, 10 to 500 Hz

OPTIONS

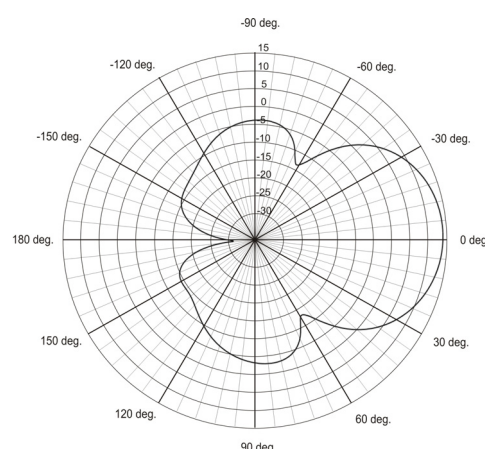
Check Tag

May be ordered with the AT5720 Check Tag installed



Normalized E-Plane (Azimuth) Pattern (H-Pol), Gpk = 14 dBi

Radiation Patterns



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

For more information:

Call 800.923.4824 (Sales Support) 505.856.8007 (Technical Support)

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