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.
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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 Gms, 10 to 500 Hz

OPTIONS

Check Tag
May be ordered with the AT5720 Check Tag installed

Radiation Patterns

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

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

For more information:
Call 214.461.6443 (Sales Support) • 505.856.8007 (Technical Support)

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