

# AA3152 Universal Toll Antenna

## FEATURES

- Specifically designed for toll lane applications, with virtually no side or back lobes, which helps confine antenna coverage to a single lane width
- Ideally suited to applications requiring a low-profile antenna
- Weatherproof enclosure that provides favorable electrical characteristics, resistance to ultraviolet radiation, and maximum corrosion resistance



The AA3152 Universal Toll Antenna (UTA) is used to broadcast and receive 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.

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## COMMUNICATIONS

### Frequency Range

902 to 928 MHz

### Gain

13 dB<sub>i</sub>

### Polarization

Linear-horizontal

### Cross Polarization (with respect to main beam)

-20 dB

### Side Lobes (with respect to peak of main beam)

≤ -15 dB

### VSWR

1.9:1

### Impedance

50 ohms nominal

### Half-Power Beam Width

32° E-plane and 35° H-plane

## HARDWARE FEATURES

### Connector

Type N female

## PHYSICAL

### Dimensions

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

Weight: 11.7 kg (26 lb)

### Mounting Height

4.6 m to 6 m (15 to 20 ft) above lane

4.9 m (16 ft) optimum

### Mounting Method

To support pipe with a maximum outer diameter of 7.6 cm (3.0 in)

## Enclosure

Weatherproof radome

## ENVIRONMENTAL

### Operating Temperature

-40°C to +75°C  
(-40°F to +167°F)

### Humidity

100% Condensing

### Vibration Tolerance

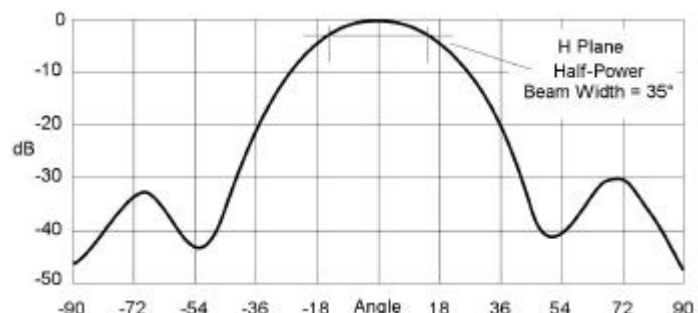
1 G<sub>rms</sub>, 10 to 500 Hz

## OPTIONS

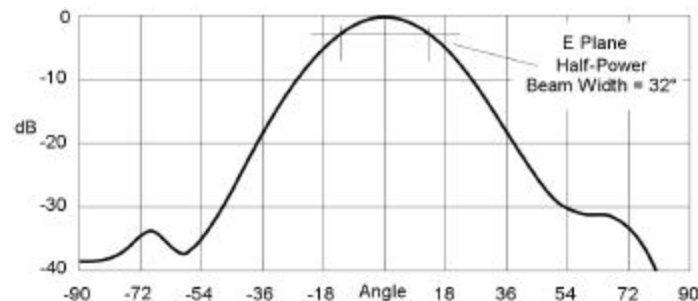
### Check Tag

May be ordered with either the AT5720 or IT2501 check tag installed

H-Plane Read Pattern



H-Plane Read Pattern



TransCore Headquarters: Harrisburg, PA

For more information on Amtech® products, call: 1.800.923.4824 or 972.733.6600 (outside the U.S.) Fax 972.733.6699

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