

# AA3234 Light Rail Antenna



The AA3234 Light Rail Antenna is designed specifically for light rail applications requiring a low profile, such as the undercarriage of commuter trains and people mover systems.

The AA3234 is designed to be mounted on a moving vehicle within 60 cm (2 ft) of the railway trackbed-mounted Amtech®-brand tags. This combination provides tag-antenna position information to an on-board vehicle computer system for a variety of applications.

The antenna can withstand up to 0.1 m (0.5 in) of ice over the case without damaging the contents. The rugged construction can withstand even the harsh cleaning chemicals used on the rail cars.

# **Features**

- Constructed for high shock and vibration environments
- Rugged weatherproof enclosure
- Dimensions compatible with mounting underneath trains
- Available with or without rugged RF cable



# AA3234 Light Rail Antenna

#### **COMMUNICATIONS**

# Frequency Range

902 to 928 MHz

#### Antenna Gain (Peak)

9.5 dBi

# **Polarization**

Linear-Horizontal

## **VSWR**

< 2.0:1

#### Impedance (Nominal)

50 ohms

## 3 DB Beam Width

30° in E-plane and 80° in H-plane

# **HARDWARE FEATURES**

#### Connector

The AA3234 is available in two configurations:

**With cable:** terminated with Type N Male connector on cable

**Without cable:** terminated with Type N Female connector on antenna

Contact your sales associate for available options

#### **PHYSICAL**

# **Dimensions**

**Size:** 22.0 x 8.0 x 2.0 in. (56.0 x 20.0 x 5.0 cm)

**Weight:** 7.7 lb (3.5 kg)

### **Mounting Location**

Underside of locomotive with 3/8 in. bolts

# **ENVIRONMENTAL**

# **Operating Air Temperature**

-40°F to +167°F (-40°C to +75°C)

#### Humidity

100% condensing

# **Vibration Tolerance**

0.2 Grms, 10 to 100 Hz

## **Shock Tolerance**

 $2 G_{\text{peak}}$ , duration 4 to 10 ms

For more information:

Sales Support

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**Technical Support** 

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transcore.com

