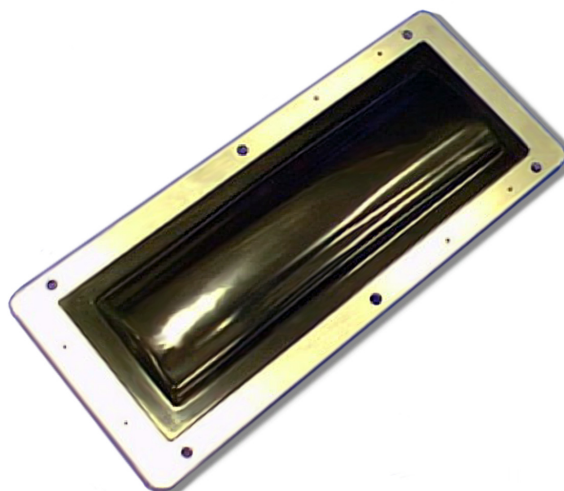


AA3235 Rail Antenna

Features

- ▶ Constructed for high shock and vibration environments
- ▶ Rugged weatherproof enclosure
- ▶ Dimensions compatible with standard rail and rail tie spacings



The AA3235 Rail Antenna is a rugged 2450 MHz antenna specifically designed for the rail applications. Its rugged weatherproof enclosure provides protection from harsh environmental conditions encountered in rail environments. The AA3235 Rail Antenna is mounted to the undercarriage of a railcar.

The antenna's optimal performance is achieved when used with the Amtech®-brand AT5510 Transportation Tag mounted to the underside of rail vehicles. The antenna operates with TransCore's Amtech-brand AR2602 or AR2603 Radio Frequency Module.

The AA3235 Rail Antenna has a pattern that is designed to read the AT5510 Transportation Tag at distances of 17.7 to 35.4 inches (45 to 90 centimeters).

The AA3235 Rail Antenna is not provided with mounting hardware for final installation. The mounting hardware must be supplied by the systems integrator or installer.

AA3235 Rail Antenna

COMMUNICATIONS

Frequency Range

2400 to 2500 MHz

Gain

10 dBi

Polarization

Linear

VSWR

<2.0:1

Impedance

50 ohms, nominal

3 dB Beam Width

120° in E-plane and 90° in H-plane

HARDWARE FEATURES

Connector

N-type socket, jam nut

PHYSICAL

Antenna Dimensions

Size: 26.9 x 2.3 x 11.25 in. (68.8 x 5.9 x 28.8 cm)

Overall Length: 34 in. (85.4 cm)

Weight: 16.4 lbs (7.64 kg)

Enclosure

Weatherproof, waterproof, chemical-resistant radome

ENVIRONMENTAL

Operating Air Temperature

-40°F to +167°F (-40°C to +75°C)

Humidity

100% condensing

Vibration Tolerance

4 G_{rms}, 5 to 500 Hz

Shock Tolerance

30 G peak x 2 ms

For more information:

Call **800.923.4824** (Sales Support) **505.856.8007** (Technical Support)

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