

# AA3236 870MHz

## Heavy Rail Antenna

TransCore's AA3236 870MHz Heavy Rail Antenna is a rugged, reliable antenna specifically designed for mounting to train undercarriages.

Constructed to meet EN body and bogie mount standards, the IP65/67 rugged weatherproof enclosure provides protection from harsh environmental conditions encountered in railroad applications. The AA3236 Heavy Rail Antenna is designed to meet ETSI 301 489-1 and -3 requirements for external antennas.

When paired with TransCore's AI1422E 870MHz reader, the AA3236 Heavy Rail Antenna can read TransCore's suite of 870MHz rail transponders at speeds up to 150km/hr.

The AA3236 includes a strain relief kit to provide better coaxial cable durability when used in bogie mount applications.



### Features

- ▶ Constructed to meet EN body and bogie mount standards
- ▶ IP65/67 rugged weatherproof enclosure
- ▶ Corrosion and chemical resistant
- ▶ Strain relief kit for high vibration applications

### Applications

- ▶ Train positioning
- ▶ Rail Automatic Equipment Identification (AEI)

# AA3236 870MHz Heavy Rail Antenna

## COMMUNICATIONS

**Frequency Range**  
865 to 870 MHz

**Gain (peak, near field)**  
7 dBi

**Polarization**  
Linear, parallel with longer side

**VSWR**  
1.5 typical  
1.8 maximum

**Impedance**  
50 ohms nominal

**Beamwidth**  
E-Plane: 60°  
H-Plane: 87°

## HARDWARE FEATURES

**Connectors**  
**Antenna:** right angle N-type female

## PHYSICAL

**Dimensions**  
**Size:** 68.2 x 28.6 x 8.7cm (26.9 x 11.3 x 3.4in)

**Weight:** 7.64 kg (16.4 lbs)

**Enclosure**  
IP65/67

## ENVIRONMENTAL

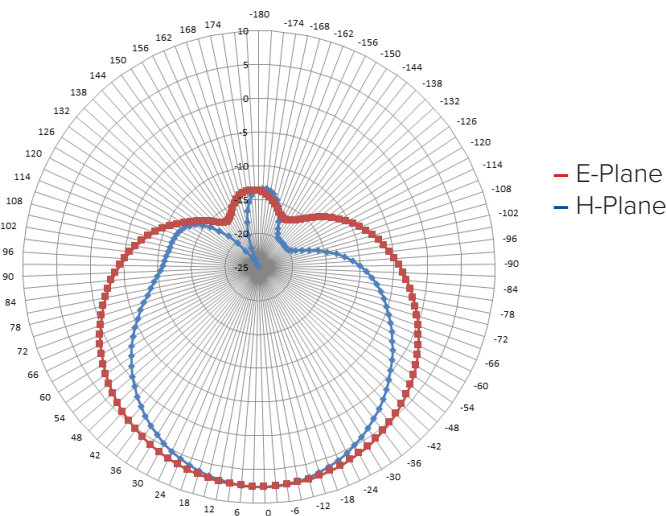
**Operating Air Temperature**  
-40°C to +80°C (-40°F to +176°F)

**Humidity**  
EN 60068-2-30 Variant 1

**Vibration Tolerance**  
AREMA Part 11.5.1 Class G & H  
EN 61373:2010 Category 1B & 2

4 G<sub>RMS</sub> 5 to 500 Hz

**Shock Tolerance**  
AREMA Part 11.5.1 Class G & H  
EN 61373:2010 Category 1B & 2  
30 G peak x 18 ms



Antenna Field Pattern

## For more information:

**Sales Support**  
800.923.4824

**Technical Support**  
505.856.8007

[transcore.com](http://transcore.com)

