TransCore’s AA3233 915MHz Heavy Rail Antenna is a rugged, reliable antenna specifically designed for mounting to train undercarriages.

Constructed for high shock and vibration environments, the IP65/67 rugged weatherproof enclosure provides protection from harsh environmental conditions encountered in railroad applications.

The AA3233 is available with or without an integrated check tag. When paired with TransCore’s AT5000-series transportation tags, the AA3233 Heavy Rail Antenna can read rail transponders at speeds up to 75 mph (120km/hr).

The AA3233 includes a strain relief kit to provide better coaxial cable durability when used in bogie mount applications.

**Features**
- Constructed for high shock and vibration environments
- IP65/67 rugged weatherproof enclosure
- Available with or without integrated check tag
- Corrosion and chemical resistant
- Strain relief kit for high vibration applications

**Applications**
- Train positioning
- Rail Automatic Equipment Identification (AEI)
AA3233 On-Board Heavy Rail Antenna

COMMUNICATIONS

Frequency Range
902 to 928MHz

Gain (peak, near field)
10 dBi

Polarization
Linear, parallel with longer side

VSWR
<2.0:1

Impedance
50 ohms nominal

Beamwidth
E-Plane: 33°
H-Plane: 80°

HARDWARE FEATURES

Connectors
Antenna: right angle N-type female
Checktag option: receptacle, jam nut

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
Antenna: -40°C to 80°C (-40°F to +176°F)
Checktag option: -40°C to +50°C (-40°F to +122°F)

Humidity
EN60068-2-30  Variant 1

Vibration Tolerance
AREMA Part 11.5.1 Class G & H
EN 61373:2010 Category 1B & 2
4 G$_{rms}$ 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

MODEL PART NUMBERS

12-3233-004
AA3233 On-Board Heavy Rail Antenna with Integrated Check Tag

12-3233-005
AA3233 On-Board Heavy Rail Antenna

For more information:

Sales Support
800.923.4824

Technical Support
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Antenna Field Pattern

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