The AA3233-004 Heavy Rail Antenna is a rugged 915 MHz antenna specifically designed for the rail industry. The antenna is designed for mounting under a locomotive. The antenna's optimal performance is achieved when used with a TransCore AT5000-series transportation tag mounted in the railbed. The AA3233-004 operates with a TransCore radio frequency (RF) module.

The AA3233-004 has built-in RF circuitry for checktag antenna-to-reader system performance checks. These system built-in-tests can be directed by the host software using a TransCore compatible reader.

The AA3233-004 has a read pattern that is designed to read an AT5000-series transportation tag at close distances of 45 cm to 90 cm (17.7 in. to 35.4 in.) and at high speeds of 120 km/hr (74.56 mph).

The AA3233-004 can be mounted under the locomotive. Mounting hardware for final installation is not included; it must be supplied by the systems integrator or installer.
## AA3233-004 Heavy Rail Antenna

### COMMUNICATIONS

**Frequency Range**
902 to 928 MHz

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

**Polarization**
Linear

**VSWR**
<2.0:1

**Impedance**
50 ohms nominal

### HARDWARE FEATURES

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

### PHYSICAL

**Dimensions**
- Size: 68.8 x 12.5 x 28.8 cm (26.9 x 4.9 x 11.25 in.)
- Overall Length: 85.4 cm (34 in.)
- Weight: 7.64 kg (16.4 lbs)

### ENVIRONMENTAL

**Operating Air Temperature**
-40°C to +50°C (-40°F to +122°F)

**Humidity**
100% condensing

**Vibration Tolerance**
4 $G_{rms}$, 5 to 500 Hz

**Shock Tolerance**
30 G peak x 2 ms

### For more information:
Call **214.461.6443** (Sales Support) • **505.856.8007** (Technical Support)