

<u>High-Temperature</u> **Transportation Tag** AT5133

The AT5133 High-Temperature Transportation Tag is a full frame, 915MHz, beam-powered radio frequency identification (RFID) tag. Packaged in a factory-sealed case, this tag is ideal for mounting on rail cars, vehicle chassis, intermodal containers, or any environment requiring a durable, weather-resistant tag.

For environments subject to occasional high temperatures, such as those found in railroad thaw sheds, the tag's reflective and heat-resistant outer coating can survive short-term heat exposure up to 350°F (177°C).

The AT5133 High-Temperature Transportation Tag is beam-powered, requiring no internal battery. In addition to giving the tag an unlimited service life, this feature limits the tag's range and reduces the possibility of cross-reads from nearby tags.

The tag can be factory-programmed, as specified by the customer, or can be user-programmed in the field using TransCore's suite of RF tag programmers.

When used with TransCore readers, security features prevent data corruption, data alteration, and tag cloning. The AT5133 High-Temperature Transportation Tag supports factory-locked data fields for Tag ID, customer, and user information. This tag also supports open data fields that can be written by the agency.



# Features

- Supports Association of American Railroads (AAR), American Trucking Associations (ATA), and Super eGo<sup>®</sup> (SeGo)
- Beam-powered for extended service life
- Read/write capability in SeGo mode
- Weather-resistant and heat-resistant factorysealed case

# Applications

- Vehicle chassis
- Intermodal containers
- Harsh environments
- Rail Automatic Equipment Identification (AEI)
- Train positioning



# AT5133 High-Temperature Transportation Tag

#### COMMUNICATIONS

Frequency Range 902 to 928MHz

**Typical Working Range** 5 to 10ft (1.5 to 3m)

Range depends on system parameters

Polarization Parallel with longer side

#### SOFTWARE FEATURES

Data Memory ATA Mode: 120 bits SeGo Mode: 2,048 bits 1088 bits (AAR)

User memory programmable using RF link

#### **POWER REQUIREMENTS**

Power Source Beam-powered

#### LIFE EXPECTANCY

Service Life Unlimited

## PHYSICAL

#### Dimensions

**Size:** 9.3 x 2.39 x 0.69in (23.6 x 6.07 x 1.75cm) **Weight:** 6.2oz (176g)

#### **Case Material**

Weather-resistant, factory-sealed case. Heat/chemical-resistant silver coating will survive up to 45-minute exposure at 350°F (177°C). Tag electronics are not warranted to survive at this temperature.

#### **Mounting Surface**

Any smooth metal surface If mounting surface is non-metallic or

irregular, tag must be mounted to a metal backplate

#### **Mounting Method**

**Rivet Mounting:** Tag must be mounted directly to any smooth metal surface using blind rivets or TIR-approved fasteners

### **ENVIRONMENTAL**

**Operating Temperature** -40°F to +185°F (-40°C to +85°C)

#### Storage Temperature -67°F to +212°F (-55°C to +100°C)

#### Humidity

100% relative humidity, condensing

#### Vibration

 $2~\text{G}_{\text{rms}}$ , 10 to 200Hz

#### Shock

30G, half-sine pulse, 6ms duration, 3 axes

## STANDARDS

Meets AAR standards for AEI Compliant with ISO 10374 and ATA standards

# PROGRAMMING

Can be programmed to your specifications at the factory, or programmed by the user in the field, using TransCore's suite of RF tag programmers

### **MODEL PART NUMBER**

13-5133-NNN

# For more information:

Sales Support 800.923.4824

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transcore.com





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