

Harsh Environment

# Transportation Tag

AT5118

The AT5118 Harsh Environment 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.

The AT5118 Harsh Environment 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 AT5118 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), Super eGo® (SeGo) and eGo protocols
- ▶ Beam-powered for extended service life
- ▶ Read/write capability in SeGo mode
- ▶ Weather-resistant and factory-sealed case

## Applications

- ▶ Vehicle Chassis
- ▶ Intermodal Containers
- ▶ Harsh Environments
- ▶ Rail Automatic Equipment Identification (AEI)
- ▶ Train positioning

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Trusted Transportation Solutions

# AT5118 Harsh Environment 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)

**eGo Mode:** 1024 bits

User memory programmable using RF link

## POWER REQUIREMENTS

### Power Source

Beam-powered

## LIFE EXPECTANCY

### Service Life

Unlimited

## PHYSICAL

### Dimensions

**Size:** 9.3 x 2.38 x 0.69in (23.6 x 6.05 x 1.75cm)

**Weight:** 5.3oz (150.3g)

### Case Material

Weather-resistant, factory-sealed, UV-stabilized gray case

### 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 G<sub>rms</sub>, 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

13-5118-NNN

For more information:

**Sales Support**

800.923.4824

**Technical Support**

505.856.8007

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

