

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

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_{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

13-5118-012 User-programmed

13-5118-013 Factory-programmed

For more information:

Sales Support

800.923.4824

Technical Support

505.856.8007

[transcore.com](https://www.transcore.com)

