

# AT5420 870MHZ

## Transportation Tag

The AT5420 Transportation Tag is an 870MHz, beam-powered radio frequency identification (RFID) tag. Packaged in a factory-sealed case, this tag is ideal for mounting on vehicle chassis, intermodal containers, or any environment requiring a durable, weatherproof tag.

The AT5420 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 the tag 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 AT5420 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 American Trucking Associations (ATA) and Super eGo® (SeGo) protocols
- ▶ Non-battery for extended service life
- ▶ Read/write capability in SeGo mode
- ▶ Weather resistant case
- ▶ Factory-sealed case

### Applications

- ▶ Rail Automatic Equipment Identification (AEI)
- ▶ Train positioning

# AT5420 870MHz Transportation Tag

## COMMUNICATIONS

### Frequency Range

865.7 to 867.5MHz

### Typical Working Range

1.5 to 6.1 m (5 to 20 ft)

Range depends on system parameters

### Polarization

Parallel with longer side

## SOFTWARE FEATURES

### Data Memory

**ATA Mode:** 60 bits (half frame)  
120 bits (full frame)

**SeGo Mode:** 2,048 bits

User memory programmable using RF link

## POWER REQUIREMENTS

### Power Source

Beam powered

## LIFE EXPECTANCY

### Service Life

Unlimited

## PHYSICAL

### Dimensions

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

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

### Case Material

Weatherproof, 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 attached to the surface of the vehicle or object to be tagged.

### 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°C to +70°C (-40°F to +158°F)

### Storage Temperature

-55°C to +100°C (-67°F to +212°F)

### Humidity

100% relative humidity, condensing

### Vibration

EN61373:2010

### Shock

EN61373:2010

200 G, half-sine pulse, 3 ms duration, 3 axes

### Compatibility

**ATA Mode:** American Trucking Associations standard

**Super eGo Mode:** SeGo

### Model Part Number

Half Frame: 13-5420-NNN

Full Frame: 13-5422-NNN

For more information:

### Sales Support

800.923.4824

### Technical Support

505.856.8007

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

