

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), eGo, 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 and eGo Modes: 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

eGo Mode: ANSI NCITS 256-2001 Part 4.2 and ISO 18000-6B standards

Super eGo Mode: SeGo

Model Part Number
Half Frame: 13-5420-NNN
Full Frame: 13-5422-NNN

For more information:

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transcore.com

