

# AT5704

## Dynamic Tag

The AT5704 Dynamic Tag is an extended-memory, field disturbance, backscatter device that has memory written to it via an asynchronous wire interface. Roadside or rail wayside radio frequency (RF) readers then can remotely retrieve the data written to the tag.

Users can designate frames as either fixed or dynamic data frames. Fixed data is programmed to the tag's nonvolatile memory and remains in memory even if the tag loses power. Dynamic data is stored in RAM and may be written over in subsequent transmissions from an onboard sensor.

Data on this tag can be configured to match reader systems that are compatible with Association of American Railroads (AAR), American Trucking Associations (ATA), and the International Organization for Standardization (ISO).

The AT5704 is an externally powered tag that accepts 8-24VDC power. The AT5704 boasts a weatherproof case design with several varieties of cable lengths to meet application-specific requirements.

TransCore's RFID-based systems are trusted worldwide by mass transit agencies to provide precise location and accurate data as part of their rail system control and signal systems.



### Features

- ▶ Supports RS232 or RS422 communication protocols
- ▶ Compatible with International Organization for Standardization (ISO) reader systems
- ▶ Externally-powered
- ▶ Programmable through a wire interface

### Applications

- ▶ Rail traffic monitoring
- ▶ Automatic data capture
- ▶ Automatic Equipment Identification (AEI)
- ▶ Fleet management

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## COMMUNICATIONS

### Frequency Range

902 to 928MHz

### Typical Working Range

0 to 30 ft (0 to 9 m)

### Polarization

Parallel with long axis

## POWER REQUIREMENTS

### Power Source

8-24VDC, externally powered through wire interface

## SOFTWARE FEATURES

### Data Capacity

Up to 256 frames (each with 108 available bits)

## LIFE EXPECTANCY

### Service Life

Unlimited

## PHYSICAL

### Dimensions

**Size:** 9.3 x 2.4 x 0.8in (23.6 x 6.1 x 2cm)

**Weight:** 11.4oz (322g) maximum

### Case Material

Weatherproof, sealed, UV-stabilized, gray case

## ENVIRONMENTAL

### Operating Temperature

-40°F to +175°F (-40°C to +80°C)

## COMPLIANCE

### Standards

Association of American Railroads (AAR), American Trucking Associations (ATA), and the International Organization for Standardization (ISO)

## OPTIONS

### Labeling

Identification information, custom logos and/or organization name can be marked on tag case. Model number and ID number can be indelibly marked on tag case top surface

### Interface Cable

**RS-232 TTL** – 16.4ft (5m), 4-wire serial, half duplex, asynchronous

**RS-422** – 16.4ft (5m), 7-wire serial, half duplex, asynchronous

## MODEL PART NUMBER

13-5704-NNN 915 Dynamic Tag

For more information:

### Sales Support

800.923.4824

### Technical Support

505.856.8007

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

