TRANSCORE

# AT5106 Access Control Tag

## FEATURES

- **Dual-frequency**
- **Interior or exterior mounting on a non-metallic surface**
- **Factory-programmed, 60-bit storage**
- **Wiegand programming available**
- **Powered by lithium battery**
- **10-year average service life**

The AT5106 Access Control Tag is a radio frequency (RF) field disturbance device used only in applications with TransCore's SmartPass® integrated reader systems. The dual-frequency tag is factory-programmed, as specified by the customer, and stores up to 10 six-bit alphanumeric characters of data (60 bits). The tag can be factory-programmed to emulate Wiegand access control cards using 26- to 54-bit Wiegand formats. The AT5106 can be mounted on the vehicle's interior windshield or on an exterior nonmetallic surface.

A small lithium battery cell energizes the AT5106 tag. The battery is compliant with U.S. DOT 49 CFR § 173.185(c) regulations for unrestricted shipment. Consult local agencies for regulations if the tag is to be shipped outside the United States. With continuous use, the average useful tag life is 10 years. The number of tag reads and external RF fields do not affect battery life.

The AT5106 Access Control Tag encodes the signal received from a SmartPass reader with an identification number or a data message. The encoded signal reflects back (backscatters) to the SmartPass reader. The Amtech®-brand AI1600-series readers can read the AT5106 Access Control Tag.

# **AT5106** Access Control Tag

## COMMUNICATIONS

### Frequency Range
902 to 928 MHz

2400 to 2500 MHz

### Typical Working Range
**With AI1611Reader:**
5 to 10 ft (1.5 to 3 m)

**With AI1620 Reader:**
5 to 35 ft (1.5 to 11 m)

Range depends upon system parameters.

### Polarization
Parallel with longer side

## SOFTWARE FEATURES

### Data Capacity
Up to 10 six-bit alphanumeric characters (60 available bits) or Wiegand 26- to 54-bit formats

## POWER REQUIREMENTS

### Power Source
Lithium battery with 10-year average life

## PHYSICAL

### Dimensions
**Exterior-mounted case**:
4.7 x 2.4 x 0.6 in
(11.9 x 6.1 x 1.5 cm)

**Interior-mounted case**:
3.7 x 2.4 x 0.6 in
(9.5 x 6.1 x 1.5 cm)

Weight: 2.4 oz (66 g)

### Case Material
Watertight, polycarbonate alloy

### Mounting Surface
Nonmetallic

### Mounting Method
**Semi-permanent Mounting:** Double-sided tape

**Removable Mounting:** Adhesive-backed hook-and-loop material attached to the tag and to the inside surface of the vehicle windshield

### Mounting Location
Interior of vehicle windshield or exterior non-metallic surface

## ENVIRONMENTAL

### Operating Temperature
-40°F to +185°F (-40°C to +85°C)

## OPTIONS

### Case Type
The user can select either the interior- or exterior-mounted case. The interior-mounted case design allows mounting with either hook-and-loop material or double-sided tape. The exterior-mounted case design allows mounting with tabs for fastening to flat exterior surfaces using blind rivets.

### Hook and Loop
For interior installation, the user can specify factory-applied hook-and-loop material.

### Double-Sided Tape
For semi-permanent interior installation, the user can specify factory-applied double-sided tape.

### Tag Case Color
The standard color is beige. Consult the price list for other color options.

## DOCUMENTATION

*Technical Notes: Mounting TollTags® with Hook and Loop Attachments*

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**For product information call:** 1.800.923.4824 or 214.461.4031 (outside the U.S.) Fax 214.461.6478

www.**transcore**.com



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