

AT5406

Access Control Tag

The AT5406 Access Control Tag is a half frame, battery-powered radio frequency (RF) tag used in automatic vehicle identification applications with TransCore's Amtech® brand and TransCore® Encompass® multiprotocol reader systems. This dual-frequency tag is designed for interior mounting on a nonmetallized windshield.

The AT5406 Access Control Tag is factory-programmed, as specified by the customer, and stores up to 10 six-bit alphanumeric characters of customer data (60 bits of ATA tag memory).

The AT5406 Access Control Tag, in conjunction with TransCore Encompass readers, enables advanced security techniques that ensure a tag's authenticity while preventing data corruption and/or alteration. In addition, tag cloning, spoofing, copying, or duplicating is prevented.

The AT5406 Access Control Tag supports factory programming of fixed data fields that are locked at the factory and cannot be reprogrammed. Agency-programmed fixed data fields optionally can be locked by the agency after programming using password-protected programming equipment.

A small lithium battery cell energizes the AT5406 Access Control 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 tag life is eight years. The number of tag reads and external RF fields do not affect battery life.



Features

- ▶ Supports Super eGo® (SeGo), eGo, and ATA protocols
- ▶ Dual-frequency (915 and 2450 MHz)
- ▶ 2048-bit read/write memory
- ▶ Read/write capability in SeGo mode
- ▶ Compatible with multiple Amtech-brand readers and TransCore Encompass multiprotocol readers
- ▶ Data encryption and authentication
- ▶ Non-replaceable internal battery with an 8-year design life, based on typical usage
- ▶ Impact resistant, molded plastic case
- ▶ Wiegand programming available
- ▶ Interior mounting on non-metallized windshield

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AT5406 Access Control Tag

COMMUNICATIONS

Frequency Range

902 to 928 MHz

2425 to 2475 MHz

Typical Working Range

5 to 35 ft (1.5 to 11 m)

Range depends on system parameters

Polarization

Linear, horizontal

SOFTWARE FEATURES

Data Memory

SeGo and eGo Modes: 2,048 bits

ATA Mode: 60 bits, or Wiegand 26- to 54-bit format of customer data

User memory programmable using RF link

POWER REQUIREMENTS

Power Source

Lithium battery with 8-year typical life

PHYSICAL

Dimensions

Size: 4.5 x 2.5 x 0.7 in. (11.4 x 6.4 x 1.8 cm)

Weight: 3.5 oz (99 g)

Case

The plastic case is UV stable. Operation is not affected by temperature extremes or severe conditions typical of this environment. The case is shock and vibration resistant. The standard color is light gray.

Mounting Location

Interior: Non-metallic windshield

Mounting Method

Semi-permanent Mounting: Double-sided tape

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

ENVIRONMENTAL

Operating Temperature

-40°F to +185°F (-40°C to +85°C)

COMPATIBILITY

Super eGo Mode: SeGo

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

ATA Mode: American Trucking Associations standard

OPTIONS

Double-Sided Tape

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

Hook-and-Loop Material

For removable installation, the user can specify factory-applied hook-and-loop material.

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