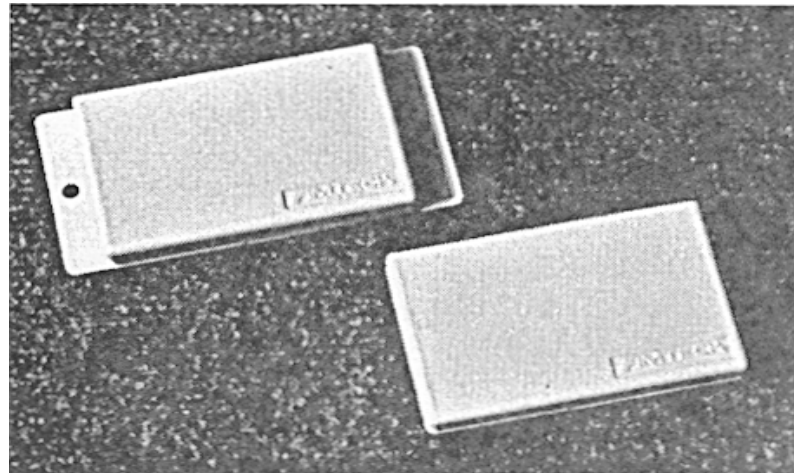


AT5107 Access Control Tag

FEATURES

- Stores up to 10 six-bit alphanumeric characters of data (60 bits), factory programmed as specified
- Can be programmed to emulate Wiegand access control cards using 26- to 54-bit Wiegand formats
- Average tag life of 10 years under continuous use. Battery life is not affected by the number of times the tag is read or by RF fields from other sources.
- Energized by a small lithium battery, compliant with U.S. DOT 49 CFR § 173.206(f) for unrestricted shipping. Consult local agencies for regulations when the tag is to be shipped outside the United States.



The AT5107 Access Control Tag is a radio frequency (RF) field disturbance device used only in applications with Amtech® SmartPass® integrated reader systems.

The AT5107 encodes the signal received from a SmartPass reader with an identification number or a data message. The encoded signal is

reflected (backscattered) back to the SmartPass reader.

The AT5107 can be read by AI1600 series readers.

AT5107 Access Control Tag

COMMUNICATIONS

Frequency Range

902 to 928 MHz
2400 to 2500 MHz

Typical Working Range

With AI1611:
1.5 to 3 m (5 to 10 ft)

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

Range depends upon system parameters.

Polarization

Parallel with longer side

SOFTWARE FEATURES

Data Capacity

Up to 10 6-bit alphanumeric characters (64 actual bits, 60 user bits) or Wiegand 26- to 54-bit formats

POWER REQUIREMENTS

Power Source

Lithium battery (10-year average life)

PHYSICAL

Dimensions

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

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

Weight: 66 g (2.4 oz)

Case Material

Watertight, polycarbonate alloy

Mounting Surface

Metallic surface only

Mounting Location

Vehicle interior or exterior

ENVIRONMENTAL

Operating Temperature

-40°C to +85°C (-40°F to +185°F)

OPTIONS

Case Type

The user can select either the interior or exterior-mounted case. The interior-mounted case is designed to be mounted with either hook and loop or double-sided tape. The exterior-mounted case is designed with mounting 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 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



TransCore Headquarters: Harrisburg, PA

For more information on Amtech® products, call: 1.800.923.4824 or 972.733.6600 (outside the U.S.) Fax 972.733.6699

www.transcore.com www.amtech.com

© 2000 TransCore, Inc. All rights reserved. TransCore, TollTag, and Dynamic Tag are trademarks and Amtech, SmartPass, Dynicom, and PassKey are registered trademarks of TransCore, Inc. The PassKey system is covered by U.S. Patents 5,414,624 and 5,737,710. All other trademarks listed are the property of their respective owners. Contents subject to change. Printed in the U.S.A