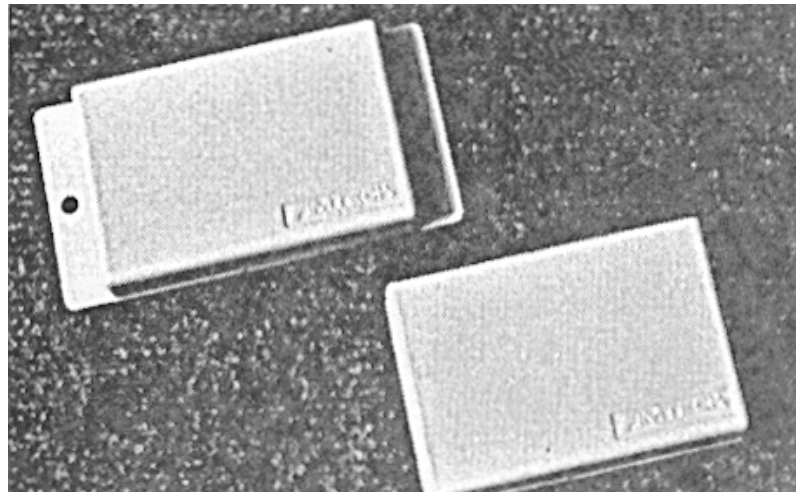


AT5544 TollTag®

FEATURES

- Stores up to 20 six-bit alphanumeric characters of data (120 bits), factory programmed or laser etched as specified
- 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 AT5544 TollTag is a battery-powered radio frequency (RF) field disturbance device specifically used in applications with Amtech® reader systems.

The AT5544 encodes the signal received from an Amtech reader system

with an identification number or a data message. The encoded signal is reflected (backscattered) back to the Amtech reader system.

The AT5544 can be read by AI1200, AI1300, AI1400, and AI1600 series readers.

AT5544 TollTag®

COMMUNICATIONS

Frequency Range

902 to 928 MHz
2400 to 2500 MHz

Typical Working Range

AR2200/AI1620:
1.5 to 11 m (5 to 35 ft)

AR2602, AI1611:
1.5 to 3 m (5 to 10 ft)

Range depends on system parameters

Polarization

Parallel with longer side

SOFTWARE FEATURES

Data Capacity

Up to 20 six-bit alphanumeric characters
(128 actual bits, 120 user bits)

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

Nonmetallic surface

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°C to +85°C (-40°F to +185°F)

OPTIONS

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.



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

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