

AT5944 TollTag®

Features

- ▶ Dual-frequency
- ▶ Supports Super eGo® (SeGo), eGo, and ATA protocols
- ▶ Interior mounting on non-metallized windshield
- ▶ 2048-bit read/write memory
- ▶ Non-replaceable internal battery with an 8-year design life, based on typical usage
- ▶ Compatible with multiple Amtech®-brand readers and TransCore® Encompass® multiprotocol readers



The AT5944 TollTag is a battery-powered radio frequency (RF) field disturbance device specifically used in applications with TransCore Amtech-brand and TransCore Encompass multiprotocol reader systems. This dual-frequency tag is designed for interior mounting on a nonmetallized windshield.

A small lithium battery cell energizes the AT5944 TollTag. 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.

The AT5944 TollTag encodes the signal received from an Amtech-brand or Encompass multiprotocol reader system with an identification number or a data message. The encoded signal reflects back (backscatters) to the reader system.

AT5944 TollTag®

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 Mode: 2,048 bits

ATA Mode: 120 bits

All programmable using wireless 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 not affected by temperature extremes or severe conditions typical of this environment. The AT5944 TollTag is shock and vibration resistant.

The standard color is light gray.

Mounting

Interior mounting on nonmetallized windshield

Mounting Method

Semipermanent 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: Non-metallic 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

Hook-and-Loop Material

For removable 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.

ACCESSORIES

AP4118 Rail Tag Programmer

The AT5944 TollTag can be programmed in the field using the AP4118 Rail Tag Programmer and a PCMCIA adapter. The AP4118 Rail Tag Programmer contains serial interface logic for connection to a PC host.

For more information:

Call **800.923.4824** (Sales Support) **505.856.8007** (Technical Support)

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