

FEATURES

- **Thin, flexible sticker format**
- **Low-cost, easily installed**
- **Ideal for electronic tolling, electronic vehicle registration, mCommerce, parking, and security access**
- **Non-battery**
- **Extended read range**
- **1024 bit read/write memory**

eGo® Windshield Sticker Tag



eGo Windshield Sticker Tag (shown actual size)

The eGo® Windshield Sticker Tag is a 915 MHz radio frequency (RF)-programmable, beam-powered transponder. Packaged as a flexible sticker, this tag is ideal for applications that require low-cost, easily installed tags. The tag is suitable for a wide variety of automatic vehicle identification (AVI) transportation applications, including electronic tolling, electronic vehicle registration, *mCommerce*, parking, and security access applications.

TransCore's eGo Windshield Sticker Tag offers a new price/performance paradigm in radio frequency identification (RFID) technology. Using a revolutionary RFID tag-on-a-chip ASIC, the eGo Windshield Sticker Tag offers an extended read range of up to 31.5 feet (9.6 meters) and 1024-bit read/write memory at a fraction of the cost of older, less flexible RFID technology. The tag provides the capability to read, write, rewrite, or permanently lock individual bytes. User-specified groups within a population of tags can be selected, read from, and/or written to using multi-tag access commands.

The eGo Windshield Sticker Tag is read by TransCore's eGo family of readers configurable to support a protocol compliant with the ANSI INCITS 256-2001 and the International Organization for Standardization (ISO) 18000-6 standards.

Optional features include custom external laser etching and custom programming. A tamper-resistant eGo tag and OEM tag inserts are also available.

eGo® Windshield Sticker Tag

COMMUNICATIONS

Frequency Range

902 to 928 MHz

Maximum Read Range

11.5 ft (3.5 m) with unlicensed readers, Federal Communications Commission (FCC) Part 15

31.5 ft (9.6 m) with licensed readers, FCC Part 90

Polarization

Linear, horizontal

Anti-collision Protocol

Efficient, binary tree-type anti-collision algorithm

SOFTWARE FEATURES

Memory

EEPROM

Byte resolution memory addressing

Byte resolution memory lock

1024 bits total memory:

- Unique 64-bit tag ID locked at the factory
- 880 bits user memory formatted and locked as required by application. User memory includes 128 bits that are factory programmable.

Data Rate

Read 8 bytes of data from a tag in less than 10 ms

Write a single byte of data to a tag in less than 25 ms

LIFE EXPECTANCY

Service Life

Capable of unlimited reads and more than 100,000 write transactions

PHYSICAL

Dimensions

1.81 x 3.11 x 0.05 in (46 x 79 x 1 mm)

Mounting Surface

Attached by a semi-permanent adhesive to interior of a nonmetallic windshield 0.190 to 0.230 in (4.82 to 5.84 mm) in thickness

ENVIRONMENTAL

Operating Temperature

-40°F to +185°F (-40°C to +85°C)

Storage Temperature

-58°F to +203°F (-50°C to +95°C)

Humidity

95% condensing

Vibration Tolerance

1.5 G_{rms}, 5 to 1000 Hz, 3 axes

Shock Tolerance

5 G, 1/2 sine pulse, 10 ms duration, 3 axes

Chemical Exposure

No tag damage in the following situations:

- exposed to water washing of the backside of the sticker
- exposed to commonly spilled beverages, mild cleaning solutions, or vinyl plasticizers

STANDARDS

Fully compliant with ANSI INCITS 256-2001 and ISO 18000-6

OPTIONS

- Custom laser etching
- Customer-specific tag programming

MODELS AVAILABLE

13-0510-003: Full-frame tag insert

13-0510-004: Full-frame sticker

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