

FEATURES

- **Read range of up to 16.4 feet (5 meters)**
- **1024-bit read/write memory**
- **Ideally suited for electronic tolling, electronic vehicle registration, *mCommerce*, parking, and security access**
- **Non-battery**

eGo® License Plate Tag



The eGo® License Plate Tag is 915 MHz RF programmable, beam-powered transponder. It is packaged in a water-resistant case. The characteristics of this tag make it ideal for applications that require exterior-mounted, low-cost, easily installed tags. These tags are suited for a variety of automatic vehicle identification transportation applications, including electronic tolling, electronic vehicle registration, *mCommerce*, parking, and security access applications.

TransCore's eGo License Plate Tag offers a new price/performance paradigm in radio frequency identification (RFID) technology. Using a revolutionary RFID tag-on-a-chip ASIC, the eGo License Plate Tag offers a read range of up to 16.4 feet (5 meters) and 1024-bit read/write memory at a fraction of the cost of older RFID technology. The tag provides the capability to read, write, rewrite, or permanently lock individual bytes.

These tags are 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. An optional Exterior Tag Accessory Kit that makes the installed tag tamper-resistant is also available.

eGo[®] License Plate Tag

COMMUNICATIONS

Frequency Range

902 to 928 MHz

Typical Working Range

0 to 16.4 ft (0 to 5 m)

Read/Write Range

Write range is approximately 70% of effective read range.

User-specified groups within a population of tags can be selected, read from, and/or written to using multi-tag access commands.

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 of 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

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

Writes 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

1.5 x 8.5 x 0.85 in
(3.8 x 21.6 x 2.15 cm)

Weight

3.8 oz. (108 g)

Mounting Method

Typically mounted with existing license plate brackets and hardware.

ENVIRONMENTAL

Operating Temperature

-40°F to +185°F (-40°C to +85°C)

Storage Temperature

-40°F to +203°F (-40°C to +95°C)

Humidity

95% non-condensing @ 104°F (40°C)

90% non-condensing @ 77°F to 131°F
(25°C to 55°C)

Vibration Tolerance

1 G_{rms}, 5 to 2000 Hz, 3 axes

Shock Tolerance

50 G, 1/2 sine pulse, 3 ms duration, 3 axes

Chemical Exposure

No tag damage in the following situations:

- exposed to water washing
- exposed to commonly spilled beverages, mild cleaning solutions, or vinyl plasticizers

Ultraviolet Radiation Exposure

Tag is not damaged by long-term exposure to sunlight.

STANDARDS

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

COLOR

The eGo License Plate Tag standard case color is black.

OPTIONS

- Custom laser etching
- Customer-specific tag programming at the factory
- TransCore Exterior Tag Accessory Kit (P/N 19077-01). This kit makes the installed tag tamper-resistant.

MODELS AVAILABLE

13-0510-900: Full-frame license plate tag



For product information call: 1.800.923.4824 or 972.733.6600 (outside the U.S.) Fax 972.733.6486

www.transcore.com

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