

eGo® Plus License Plate Tag

Features

- ▶ Supports Super eGo® (SeGo), eGo, and ATA protocols
- ▶ License plate mounted
- ▶ Non-battery
- ▶ 2048-bit read/write memory
- ▶ Ideal for electronic toll collection, airport access and ground transportation management systems, parking access, and security access
- ▶ Compatible with TransCore Encompass® multiprotocol readers, AI1200-series readers, and AI1600-series readers



The eGo® Plus License Plate Tag is a 915 MHz RF programmable, beam-powered, license plate mounted tag, which 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. This tag supports Super eGo (SeGo), eGo, and ATA protocols. The tag is suitable for a wide variety of automatic vehicle identification (AVI) transportation applications, including electronic toll collection, airports and ground transportation management systems, parking access, and security access applications.

Using an RFID tag-on-a-chip ASIC, the eGo Plus License Plate Tag offers a read range of up to 31.5 feet (9.6 meters) and 2048-bit read/write memory. The tag provides the capability to read, write, rewrite, or permanently lock individual bytes.

Each eGo Plus License Plate Tag comes equipped with a factory-programmed unique tag identification number that prevents the tag from being duplicated.

The eGo Plus License Plate Tag is read by TransCore's family of readers, which are configurable to support a protocol compliant with ANSI NCITS 256-2001, ISO 18000-6B, and ISO 10374 standards, and the ATA Standard for Automatic Equipment Identification. This multiprotocol feature of the eGo Plus License Plate Tag makes it ideal for migrating from a mixed-tag population to a common tag.

Optional features include custom external laser etching and custom programming. An optional Exterior Tag Accessory Kit makes the installed tag tamper-resistant.

eGo® Plus License Plate Tag

COMMUNICATIONS

Frequency Range

902 to 928 MHz

Maximum Read Range¹

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

1. Up to 31.5 feet (9.6 m) with licensed readers, FCC Part 90

Polarization

Linear, horizontal

Anti-collision Protocol

Efficient, binary tree-type anti-collision algorithm

Performance

The eGo Plus License Plate Tag can be read from and written to at highway speeds.

SOFTWARE FEATURES

MEMORY

Super eGo Mode

Total: 32 pages, 256 bytes, 2,048 bits

Unique ID: 1 page, 8 bytes, 64 bits

User data, general use: 20 pages, 168 bytes, 1,344 bits

Reserved for security authentication: 11 pages, 88 bytes, 704 bits

eGo Mode

Total: 128 bytes, 1,024 bits

Unique ID: 8 bytes, 64 bits

User data: 110 bytes, 880 bits

ATA Mode

Up to 20 six-bit alphanumeric characters (120 available bits)

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 @113°F (45°C)

Vibration Tolerance

1 Grms, 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 protocol-compliant with NCITS 256-2001, ISO 18000-6B, ISO 10374, and ATA standards.

COLOR

The eGo Plus 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

13-0700-900: eGo Plus License Plate Tag

