

FEATURES

- **Fully self-contained, integrated reader**
- **Reads eGo and/or ATA tags**
- **Ideal for parking, security access, electronic vehicle registration, and mCommerce**
- **915 MHz RF band operation**
- **Compatible with a wide range of industry-standard formats**
- **Wiegand capability**
- **Weatherproof enclosure**
- **Similar system interface as TransCore's SmartPass readers**
- **Selectable RF output power**
- **Quick, simple installation by trained, authorized personnel**

eGo™ 2110 Reader



TransCore's eGo™ 2110 Reader is a fully integrated, self-contained 915 MHz wireless identification reader. It includes a radio frequency (RF) module, digital signal processor (DSP), power supply, antenna, I/O ports, and serial communications interface. The reader is ideal for parking, security access, vehicle registration/identification, and *mCommerce* applications with a requirement to read TransCore's eGo tags and/or TransCore's American Trucking Association (ATA)-compliant tags.

The eGo 2110 Reader is configurable to read TransCore eGo tags with Intellitag® protocol (64-bit tag ID or 128 bits of specially programmed data), as well as tags compliant with ATA and International Organization for Standardization (ISO) standards. It can read tags formatted to a wide range of industry-standard formats, including Wiegand format. Custom Wiegand 26-bit to 56-bit (inclusive) formats can be developed to match identification card formats used by existing security systems.

The eGo 2110 Reader transmits an RF signal that is reflected back from an RF tag. The eGo 2110 Reader then decodes the tag data carried by the reflected signal. The system transmits this data to a local host computer for processing. In multi-lane applications, if necessary, the readers can be synchronized using external hardware to allow operation in close proximity.

The unit has a weatherproof enclosure and is supplied with a pole-mount bracket specifically designed for controlled traffic lanes. The eGo 2110 Reader is quickly and easily installed and tested by trained, authorized personnel. It uses a similar system interface as TransCore's SmartPass® readers.

eGo™ 2110 Reader

COMMUNICATIONS

Frequency Range

902 to 928 MHz capable

912.5 to 919 MHz FCC-authorized in United States

Internal Antenna Gain

9.5 dBi

RF Control

By sense input or host command

Polarization

Linear, horizontal

Range

Read performance varies depending on tag and reader configuration and environment. Optimum read range using the eGo Windshield Sticker Tag is 24.3 ft (7.4 m). Typical read range should be 12 to 17 ft (3.7 to 5.2 m).

Consult the *eGo 2110 System Guide* for tag and reader selection.

I/O Control

Input: two independent dry contact closures for sense circuits

Output: two independent Form-C contacts

Communications Interface

RS-232 with Wiegand or RS-422 with Wiegand-compatible host interface

POWER REQUIREMENTS

Input Power

16 to 20V AC, 47 to 63 Hz, or 16 to 28V DC

Output Power

2 W maximum to 200 mW minimum, selectable in 1dB steps

LICENSING

Local regulations apply. Operation in the United States is regulated by the Federal Communications Commission (FCC).

The eGo 2110 Reader is verified to Part 15 of the FCC rules for a Class A digital device.

PHYSICAL

Dimensions

Size: 15.5 x 15.5 x 3.25 in
(39.4 x 39.4 cm)

Weight: 9.5 lb (4.3 kg)

Mounting Location

Pole or wall mount

Indoor or outdoor

Enclosure

The system is environmentally sealed in a tamper-proof, polycarbonate housing.

ENVIRONMENTAL

Operating Air Temperature

-40°F to +131°F
(-40°C to +55°C)

Humidity

100% condensing

Vibration

0.5 G_{rms}, 10 to 500 Hz

Standards

The eGo 2110 Reader complies with the requirements of Underwriters Laboratories UL-1950, Standard for Safety of Information Technology Equipment.

OPTIONS

Cable Accessory Kits

Cable Accessory Kits allow flexibility in installing the eGo 2110 Reader. Include the part number when ordering.

Part number 58-1620-001: connector with 5 ft (1.5 m) cable

Part number 58-1620-002: connector with 20 ft (6.1 m) cable

Wall Mount Bracket

Allows adjustment in all planes when used to install the eGo 2110 Reader on a flat surface. Include the part number 54-1620-001 when ordering.

Transformer

A Class C transformer (part number 76-1620-005) is available to allow 110V AC to 18V AC conversion. Include the part number when ordering.

Training

Installation, operation, and maintenance training for TransCore authorized dealers is available through TransCore. For details, call (800) 755-0378.

DOCUMENTATION

eGo 2110 System Guide

eGo 2110 Field Installation Guide



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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