



E1i Handheld Reader

Overview:

The E1i handheld reader is ideal for radio frequency identification (RFID) applications requiring an extended read range, multitag sorting, and memory capacity not provided by proximity technology. The handheld reader is targeted specifically for rail applications such as Rail Mobile®. The handheld reader's typical read range is 8 to 12 feet (2.4 to 3.7 meters). The handheld reader can read from the following tag types: TransCore eGo® and eGo Plus in Super eGo (SeGo) mode RFID tags; and Association of American Railroads (AAR); American Trucking Associations (ATA); and International Organization for Standardization (ISO) tags. The handheld reader can also read all standard bar code symbologies.

The E1i handheld reader is designed for easy, comfortable RFID reading, yet it is rugged enough to withstand harsh working environments. Phone style (123) and 10-key (789) numeric keypads are available on all models and alpha keypads are available on select models. The rechargeable lithium-ion battery pack powers the RFID reader for an entire shift.

Benefits:

- Allows easy integration of AEI data to user's core business process.
- Allows tracking of rail car arrivals, departures, and locations within rail yards.
- Error-free data collection.
- Easily customized to meet future changes in yard layouts and operation.

Key Features:

Following are some of the many features of the new E1i handheld RFID reader:

- Handheld multiprotocol RFID reader and mobile computer.
- Suitable for electronic vehicle registration and compliance, rail, fleet, electronic toll collection, government, airports, and parking/security access applications.

Key Features (continued):

- Ideal for exception-based scanning
- Reduces errors and redundant manual data entry
- WiFi® 802.11 b/g LAN standard
- Bluetooth® standard
- 1D/2D area imager standard
- Wide area networking (WAN) optional
- Selectable 10-key or phone style numeric keypads
- Rated for use in harsh operating environments
- Optional UL listed non-incendive models



Specifications:

FREQUENCY

915 MHz band frequency-hopping for unlicensed operation in the United States and Canada

READ RANGES

Typical read ranges: 3.5 to 12 ft (1.1 to 3.7 m) (tag dependent)

DATA RATE

Typical data rates: 10 to 80 kbps (protocol dependent)

POWER REQUIREMENTS

IP30TC – Removable 2400 mAh lithium-ion battery pack

CN3x – Rechargeable 3.7 V, 4000 mAh lithium-ion battery pack

LEDS

LEDs located on the RFID Scan Handle indicate the following statuses: (1) reader power; (2) host communications; (3) RF power; (4) tag read; and (5) battery status.

KEYPAD OPTIONS

10-key (789) or phone style (123) numeric keypads are available

INTEGRATED SCANNER (Standard)

1D/2D omnidirectional area imager suitable for reading bar codes and signature capture

HAZARDOUS LOCATION CERTIFICATIONS (Optional)

UL listing (United States and Canada)
 Division 2, Class I, Groups A, B C, D:T4
 Division 2, Class II, Groups F, G, T4
 Division 2, Class III, T4

WEIGHT

2.07 lbs (939 g)

DIMENSIONS

Mobile Computer
 7.7 x 3.2 x 1.25 in (19.6 x 8.1 x 2.8 cm)

ENVIRONMENT

Operating Temperature 32°F to 122°F (0°C to 50°C)
 Storage Temperature -4°F to 158°F (-20°C to 70°C)
 Humidity 10 to 95% humidity, non-condensing

DROP SURVIVAL

Mobile computer: 6 ft (1.8 m) drop on all faces, edges and corners in accordance with MIL-STD-810G
 IP30TC: 4 ft (1.2 m) drop 26 times to concrete

ENVIRONMENTAL RATINGS

Sealed against windblown rain and dust in accordance with International Electrotechnical Commission's (IEC) 529 IP64 rating.

COMMUNICATION

Ethernet (standard)
 USB 1.1(host and client)
 IrDA

NETWORKING

Wireless LAN (standard)
 IEEE 802.11 b/g (2.4 GHz)
 Wireless WAN (optional)