LocoCard E1BL



Overview

The LocoCard E1BL works flexibly with smartphones and handheld terminals (using the LocoGo Receiver app), as well as with System Loco's LocoTrack tracking and monitoring devices.

LocoCards log temperature and humidity, storing data locally until they can sync with either LocoGo or a LocoTrack device. They are available in several color-coded variants, each of which has a temperature range designed to suit a specific application.

Logged data is available to view and download via the LocoGo Receiver app, the LocoAware website, or the LocoAware API.

LocoCards are compliant with FDA 21 CFR Part 11 and EU GMP Annex 11, and you can easily generate Cold Chain certificates for their journeys.

Applications

LocoCards are ideal for a wide range of cold chain applications – supporting frozen, chilled, and ambient goods across pharmaceuticals, food, and beverage sectors.

LocoCards can be used flexibly at item, package, or pallet level, working inside insulated containers, reefers, or temporary cold storage environments. Use cases include:

- **LocoCards + LocoGo** – for smartphone scanning and simple assured Cold Chain delivery certificates at the end of each journey.
- **LocoCards + LocoTrack** – adding automated active temperature and location monitoring.

Whether you are transporting vaccines, biologics, or temperature sensitive groceries, LocoCards ensure traceable, tamper-evident monitoring throughout every journey.

Product Highlights

- Small, slim, and easy to install
- Designed for cold chain usage
- Alarm check button with visual indicator
- Temperature and humidity logging
- Logs every 5 minutes
- 15-minute grace period on upper temperature limit
- Battery life up to 90 days
- Up to 80 m / 260 ft range (20 m / 65 ft indoors)
- Uses secure proprietary protocol over 2.4GHz
- Certified for use globally

Remote Communication

Secure encrypted proprietary BLE-based wireless protocol (2.4GHz)*

Sensors

Temperature
≤ 0.3°C (1.1°F) accuracy
NIST traceable

Humidity
≤ 2% RH

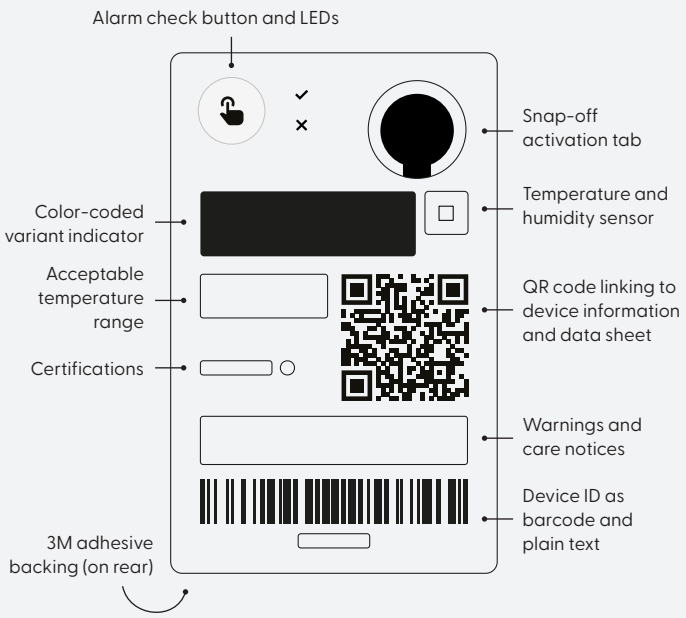
Battery

3V 120 mAh lithium cell (total lithium 0.036 g / 0.0013 oz)
providing up to 90 days of continuous operation
(depending on configuration and use case)

Power Consumption

Reporting
5 mA (average)

Reporting duration
3 ms



Mechanical Characteristics

Dimensions (LxWxH)
86 x 54 x 1.8 mm (3.4 x 2.1 x 0.07 in)

Weight
10 g (0.35 oz)

Material
PC+ABS (recyclable casing)

Color
White

Environmental

IP rating
IP54

Storage temperature
-25 to 60°C (-13 to 140°F)

Operating temperature
-25 to 60°C (-13 to 140°F)

Reporting

Range
Up to 20 m (65 ft) indoors
Up to 80 m (260 ft) outdoors

Number of tags
Up to 1,000 LocoCards per smartphone or LocoTrack device

Reporting frequency

LocoGo	1 second
LocoTrack	5 seconds

Logging

Frequency	5 minutes
Buffer	90 days

Variant Temperature Ranges

Frozen food (purple)
-25 to -18°C (-13 to 0°F)

Frozen pharmaceuticals (blue)
-25 to -15°C (-13 to 5°F)

Chilled (green)
0 to 5°C (32 to 41°F)

Refrigerated (black)
2 to 8°C (35.6 to 46.4°F)

Ambient (orange)
15 to 25°C (59 to 77°F)

All variants have 15-minute start and end grace periods on their upper temperature limits
Custom temperature ranges are available for bulk orders

Compatibility

LocoTrack devices
LTP-HGD4 | LTP-HGD4-SC | LTP-HGP4 | LTP-HGC4 | LTR-HGR4 | LTR-HFR4 | LT-Z1U

LocoGo mobile app
All smartphones and handheld terminals with Bluetooth® capabilities

Certifications
System Loco devices are certified for use in a wide range of countries and on most major airlines

*Uses a proprietary low-energy protocol over Bluetooth® radio technology.