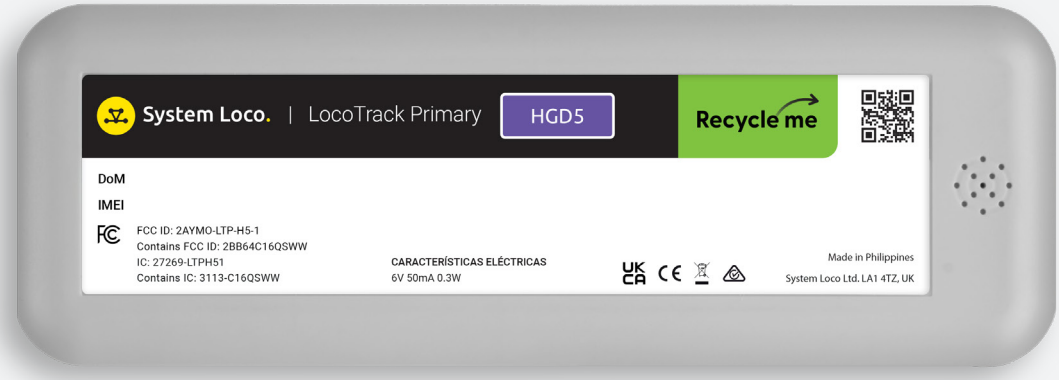
LocoTrack Primary HGD5



Overview

The LocoTrack Primary HGD5 is a non-rechargeable battery-operated device designed for supply chain asset tracking – On the Road, Rail, Air, or Ocean – as well as various under roof applications.

The LocoTrack HGD5's LTE Cat 1 bis modem is ideal for regions where LTE Cat M1 connectivity is unreliable.

Applications

Ideal for tracking high-value and cold chain shipments across all modalities globally, the LocoTrack HGD5 supports multi-modal shipments and is particularly suited for journeys where reverse logistics are challenging or impractical.

It ensures reliable location and sensor monitoring across diverse supply chain needs, even in regions of poor LTE Cat M1 connectivity.

Product Highlights

- Supports multi-modal supply chain journeys
- Optimized for global connectivity, with LTE Cat 1 bis and Wi-Fi communications
- Provides up to 60 days of in-transit tracking
- Configurable reporting intervals and positioning accuracy
- NIST traceable temperature sensor
- Detects LocoTags up to 80m (260ft) away
- Waterproof (IP67)
- Damage detection
- Pending certifications for use globally and on major airlines
- Certified for use within cold chain

Remote Communication

Worldwide LTE Cat 1 bis (1, 2, 3, 4, 5, 8, 20, 28)
Wi-Fi 802.11b/g/n via Espressif ESP8266
Secure encrypted proprietary BLE-based wireless protocol (2.4GHz)*

Positioning

Loco Hybrid Positioning Engine, with locations from A-GPS, visible cell towers and Wi-Fi access points

Battery

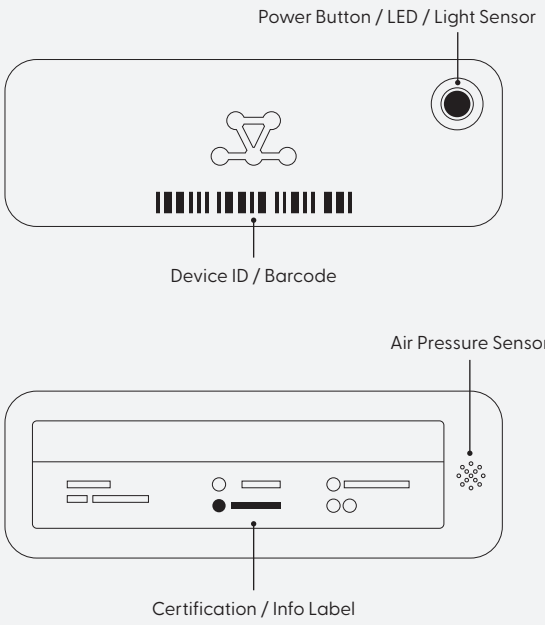
6V alkaline battery (4 x LR6 / AA cells), providing 60 days of continuous operation when using the following configuration:

1 hr reporting interval when stationary | 15 min when in motion (8 hr motion per day)
5 min temperature logging | 10 sec temperature monitoring

Power Consumption

Sleep
0.015 mA (average)

Reporting
125 mA (average)



Mechanical Characteristics

Dimensions (LxWxH)
141.2 x 49.2 x 24.1 mm
(5.5 x 1.9 x 0.95 in)

Weight
160 g (5.6 oz)

Material
PC+ABS

Color
Light gray

Environmental

IP rating
IP67

Storage temperature
5 to 30°C (41 to 86°F)

Operating temperature
-20 to 54°C (-4 to 129°F)

Sensors

Temperature
+/- 0.5°C (1°F) accuracy
from -20 to 54°C (-4 to 129°F)
NIST traceable

Accelerometer
Orientation detection
Motion detection
Impact detection
Tip detection

Air pressure
Flight mode

Light
Package open/close

Reporting

Tag detection range
Up to 20 m (65 ft) indoors
Up to 80 m (260 ft) outdoors

Number of tags
Up to 1,000 tags per device

Reporting frequency
Configurable

Compatibility

LocoTrack devices
LTP-HGD4 | LTP-HGD4-SC | LTP-HGD5 | LTP-HGP4 | LTP-HGC4 | LTR-HGR4 | LTR-HFR4 | LT-Z1U

LocoTags
LocoCard E1BL | LocoTag E4BL | LocoTag E4B | LocoTag P4B | LocoTag E4P | LocoTag P4P | LocoTag T1B | LocoTag C2PL

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. Not intended for interoperability with standard Bluetooth devices.