



Transport Tracker – GD100

Single use solution for all types of cargo

GD100 is a disposable Unit that operates for 30-days from when it is first powered on. It is used for cargo theft investigation and uses a built-in light sensor to determine when packages are being opened or tampered with. GD100 immediately sends an alarm indicating that the package has been opened at an unscheduled time or unapproved location, and reports the Google Map location, time and date stamp of the incident. GD100 is used with RouteWatch™, a proprietary software platform with outstanding performance for protection of your assets, covert operations or transportation via air, sea or ground.

SecureFlight™ suppresses transmissions during flight operations to be FAA compliant.

- Cargo embedment for ground and air shipments.
- Secure website portal.
- Sampling and reporting intervals configured at time of shipment and can be changed while in-transit.
- Improves operational productivity and enhances client visibility.
- GD100 eliminates challenges of reverse logistics, having to return or reroute tracking Units after shipment is complete.



Features



Automated Reports

Transport Environmental Monitoring System (TEMS) report and automated arrival notices sent immediately upon arrival.



Real-Time Tracking

Real-time GPS tracking with GSM Cell Tower ID back-up.



Data Availability

USB uploads data in the event of a communication failure. Data is maintained 5 (five) years. Unlimited users on website portal.



Approvals/Certifications

SecureFlight™ approved on over 25 global Airline companies.*
GPS Tracker certified under CE/FCC guidelines. Independent lab tested RTCA/DO-160 meeting global regulatory requirements, including FAA and EASA.

**For a complete list of airline approvals, please contact 3SI.*



Alerts

Provides many capabilities for monitoring temperature, geo-fence (arrivals/departures), and light level.



Battery / No charging

No charging required (manage inventories without managing the shelf-life).



LEDs

Visual LEDs for quick notification of communication interruptions.



Flexible Ping Rates

Customizable ping rates.
Adjust pings remotely via RouteWatch platform.

Specifications – GD100 Tracker

GSM/GPRS Frequency

Quad Band: 850/900/1800/1900 MHz
compliant to GSM phase 2/2+

GPS Chipset

U-blox all-in-one GPS receiver

GSM/GPS Antennas

Internal only

Stop Button

The “Stop” button allows the receiver to stop the recording of data for reporting purposes in the event of a communication failure.

Dimensions

127 x 57.15 x 12.7mm

Receiver Sensitivity

Class II RBER 2% (-107 dBm)

Stability of Frequency

<2.5 ppm

Max Frequency Error

±0.1 ppm

Certifications

CE, FCC, RTCA/DO-160

Validation Standards

GMP: 21CFR Part II; EU GDP

Battery Life

Three (3) cells, non-rechargeable, long range shelf life.

Buffered Data

In the event of communication failure, the Unit will buffer 3,000 records. Buffered data is sent then communications are restored.

USB

USB provides back-up data capabilities.

AIR INTERFACE PROTOCOL

- Transmit Protocol: TCP, UDP, SMS
- Scheduled report: Report position and status according to preset time schedules
- Report when the Unit is powered On or Off
- Low power alarm when battery is low
- SOS alarm when functions key is pressed
- Special alarm based on digital input
- Motion alarm based on internal 3-axis accelerometer



Operating Temperature

-20°C to +85°C.

Temperature Sensor

NIST and other Global Traceable standards calibrated temp sensor with tolerance of

±0.5°C 2° to 8°C

±0.5°C +15°C to +25°C

±1.0°C -15°C to -25°C

Calibration at time of manufacture. Individual calibration can be done upon request.

Light Sensor

Light Sensor to be utilized to trigger event messages when shipping cartons or climate control containers are opened. To include facility refrigerators and freezers.

Water Resistance

IP1 protection

Compliant with @Track Protocol

Same protocol with Queclic GL200 or GL300