

Picotrack Endurance Solar

The device for high-frequency multi-year asset tracking applications



The Picotrack Endurance Solar is an asset tracking device with an IP67 grade housing used to reliably track large valuable assets (containers, swap bodies, freight wagons, large industrial assets...) at higher tracking intervals over long periods of time.

The device can remain operational for many years by recharging the internal battery with its integrated high performance solar panel, and thereby transmit messages e.g. every 10 minutes and still remain fully charged at the end of a day.

Key Benefits

- Follow your assets for many years even at high tracking frequencies (e.g. every 10 minutes)
- State-of-the-art solar panel recharges the battery and reduces the need for maintenance cycles
- Robust IP67 grade device can be deployed under challenging and varying environmental conditions
- Easy installation enabled by integrated antennas and highly sensitive GPS receiver technology
- GSM Tracking and Shock Detection for advanced telematics applications
- Made in Germany

Sample Applications

- Improve supply chain visibility
- Security applications for monitoring / recovering logistics as well as large and long-life assets

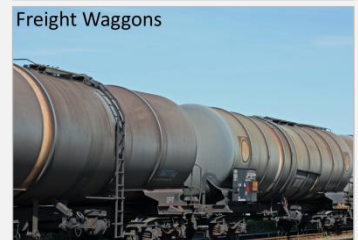
Tracking of...

- Containers of various types
- Freight wagons without own power source
- Heavy duty equipment, e.g. construction / industrial
- Trailers & swap bodies
- Large industrial assets
- Boats

The following table provides the „Dark Power Reserve“ of the Picotrack Endurance Solar, i.e. the estimated battery life when no light is available.

Messages / Day	Dark Power Reserve (in Months)
10	10
15	8
20	6
25	5
30	5

The actual performance depends on a number of additional parameters, including number of transmitted messages per day, operating temperature, frequency band over which data is transmitted, etc...



Cellular / GNSS

- GSM/GPRS: Quad Band
- Receiver Type: 56-channel GPS receiver
- GPS | GLONASS
- GPS Sensitivity (Tracking): -161 dBm
- GPS Acquisition Time: Cold 29 sec; Hot 1 sec
- GPS Accuracy: 2.5m (CEP)

Software

- Software Download Over The Air (DOTA)
- Device Configuration: Serial Interface / SMS / GPRS
- Up to 50 rectangular geofence zones
- Roaming Network support
- Event-based wake-up: Timer and/or motion based
- Event-based reporting: Based on time, duration, distance, course change & more
- Message Storage Capacity: ~ 1200
- Data transmission modes: GPRS & SMS
- 3-Level Watchdog System
- GSM Tracking (up to 1000 messages/month; transmission of latitude / longitude)
- Shock Detection: Configurable threshold, up to $\pm 8g$

Accessories

Please visit our website (www.telic.de) to download a complete list of accessories applicable to this product.

Hardware Features

- Robust & water protected housing
- IP67 Protection Class
- Internal GSM & GPS Antennas
- Integrated 3D Accelerometer for Motion and Shock Detection
- Solar Panel: Size: $\sim 165 \text{ cm}^2$; Recharging Current: 500 mA
- Robust SIM Card Reader (1.8/3V)
- Status Indicators: 3 LEDs (GSM; GPS; Battery)
- Mounting: Screw mount / Magnet mount
- NFC: 64-bit UID @ 13,56 MHz
- Type Approvals: CE

Power Management

- Battery Capacity: 13,8 Ah (LiPo, Rechargeable)
- Typical consumption in sleep Mode (internal battery): 90 μA

Hardware Characteristics

- Dimensions: 230 x 130 x 42 mm
- Operating temperature: -20°C to $+60^\circ\text{C}$
- Recharging temperature: 0°C to $+45^\circ\text{C}$
- Weight: $\sim 1000 \text{ g}$

About Telic

Telic GmbH, based in Germany, develops and markets telematics and telemetry products on a worldwide basis. The telematics products are deployed in a B2B context for professional vehicles (e.g. trucks, construction and agricultural vehicles), for asset tracking as well as for applications used in the insurance industry.

These products are based on leading mobile network standards like GSM and Global Navigation Satellite Systems (GNSS) technologies such as GPS and GLONASS. Telic specializes in supporting providers of tracking centres and Telematics Service Providers (TSPs) with the integration of Telic Products into their tracking or M2M solutions.

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