

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 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.

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

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



Containers



Freight Wagons



Container Shipment



Large Industrial Goods



Heavy Duty Equipment



Boats

Cellular / GNSS

- GSM/GPRS: Quad Band
- Receiver Type: 56-channel GPS receiver
- GPS | GLONASS
- GPS Sensitivity (Tracking): -161 dBm
- Position Acquisition Time: Cold 29 sec; Hot 1 sec
- Position 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 messages
- Data transmission modes: GPRS & SMS
- 3-Level Watchdog System
- GSM Tracking: Up to 1000 messages/month; transmission of latitude / longitude

(*) Exemplary list of software features. Please contact us to learn how we can address your use cases with our extensive set of software features as well as hardware options.

Accessories

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

Hardware Features

- Dust and water protected housing
- IP Protection Class: IP67
- Internal cellular & GNSS Antennas
- Integrated 3D Accelerometer for motion detection
- Solar Panel Size: 165 cm²
- Robust SIM Card Reader (1.8/3V)
- Status Indicators: 3 LEDs (GSM; GPS; Battery)
- Various mounting options, including screw mount & magnet mount
- Type Approvals: CE

Power Management

- Battery Capacity: 13,8 Ah (LiPo, Rechargeable)
- Battery Safety compliant with IEC 62133 for operating temperature range
- Solar Panel Recharging Current: 500 mA
- Typical consumption in sleep Mode (internal battery): 70 µA

Hardware Characteristics

- Dimensions: 230x130x42 mm
- Operating temperature: -20°C to +60°C
- Recharging temperature: 0°C to +45°C
- Weight: ~1000 g

About Telic AG

Telic AG offers a wide range of products and development services, from the initial concept design all the way to the mass market production of customer specific solutions which are deployed in telematics, M2M and IoT applications.

Telic telematics devices are designed according to automotive and industrial standards and manufactured in Germany. Telic AG's telematics solutions are deployed on a worldwide basis in the transport and logistics, automotive and insurance sectors, and more generally in the sectors for machinery engineering products as well as in Industry 4.0 applications.

How to contact us

Telic AG
Raiffeisenallee 12b
82041 Oberhaching
Germany

Tel.: +49 89 231 279-800
Fax.: +49 89 231 279-880
Internet: www.telic.de

Please contact us via our website for a quotation or if you require more details about our products.

© Telic AG – Version 1.4 -01/2017

Product specifications are subject to change without prior notice.

