

Picotrack Endurance Primary

The ultra-robust device for long life asset tracking applications



Picotrack Endurance Primary is an asset tracking device with an IP69K grade housing used to reliably track large valuable assets (containers, swap bodies, freight waggons, heavy duty equipment...) over very long periods of time (almost 9 years at 1 message per day).

It includes also advanced features like GSM Tracking when GPS positioning is not possible.

Key Benefits

- Robust and waterproof enclosure enables utilization of the device under challenging and varying environmental conditions
- Maintenance free operation for almost 9 years @ 1 message / day
- Easy installation enabled by integrated antennas and highly sensitive GPS receiver technology
- Device configuration & communication via serial interface or remotely via SMS / GPRS
- Alternative positioning option with Device-based Wireless Positioning (GSM tracking)
- Highest Quality device

Sample Applications

- Enable / improve supply chain visibility for your customers
- Security applications for monitoring / recovering logistics as well as large and long-life assets

Tracking of...

- Containers of various types
- Freight waggons without own power source
- Heavy duty equipment, e.g. construction / industrial
- Trailers & swap bodies
- Any large assets with a long operational lifetime

The following table provides the estimated battery life of Picotrack Endurance Primary depending on the number of messages transmitted per day.

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

Messages / Day	Battery Life (Years)
1	8,8
2	5,8
3	4,3
6	2,4
9	1,6
12	1,3



Containers



Freight Waggons



Container Shipment



Mobile Industrial Equipment



Large Industrial Goods



Construction Machines

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: 2.5 m CEP

Software (*)

- Software Download Over The Air (DOTA)
- Device Configuration: Serial Interface / SMS / GPRS
- Up to 50 geofence zones (rectangular)
- Roaming Network support
- Timer and/or motion based wake-up
- Event 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

Hardware Features

- Dust and water protected housing
- IP Protection Class: IP69K
- Internal cellular & GNSS antennas
- Integrated 3D Accelerometer for motion detection
- 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: 12,6 Ah (Primary Cell)
- Typical consumption in sleep Mode (internal battery): 70 μ A

Hardware Characteristics

- Dimensions: 230 x 130 x 41 mm
- Operating temperature: -30°C to + 75°C
- Weight: ~550 g

Accessories

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

(*) 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.

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.

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

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