

# Picotrack Power

## The matchbox-sized device for tracking valuable assets



The Picotrack Power is a small sized device with robust housing and excellent battery lifetime used to reliably track high value assets (e.g. valuable shipments, product prototypes, confidential documents ...) over a period of weeks to several months. This tracking device provides also GSM-based position estimates (Latitude / Longitude) when GPS is not available.

The Picotrack Power is equipped with a 1320 mAh rechargeable battery. An extremely robust IP69K housing is available as accessory for widely varying and challenging environmental conditions.

### Key Benefits

- Extremely small tracking device, the size of a matchbox, fits into any type of transport container
- Easy deployment enabled by integrated antennas and highly sensitive GPS receiver technology
- Deliver GSM-based positioning data when GPS is not available (when the device is located e.g. in tunnels or in warehouses)
- Excellent battery lifetime which can extend to several months of operation time depending on the specific configuration
- Made in Germany

### Sample Applications

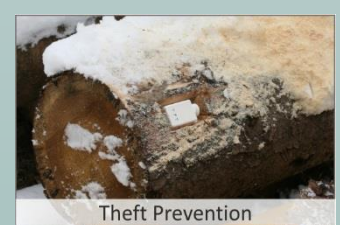
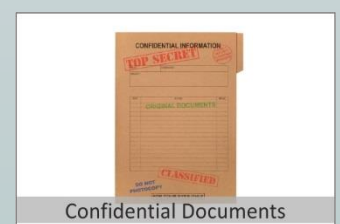
- Security applications for monitoring / recovering goods and products of high value
- Tracking of larger assets for a period of several months where size is a critical factor

### Tracking of...

- Transport Boxes, Pallets, cartons
- Goods and products of high value
- Product Prototypes
- Confidential documents
- Security / safety sensitive items

The following table provides the estimated battery lifetime of the Picotrack Power 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...

| Interval | Picotrack Power |
|----------|-----------------|
| 15 sec   | ~14 h           |
| 5 min    | ~ 24 h          |
| 5 hours  | ~ 2 months      |



## Cellular / GNSS

- GSM/GPRS: Quad Band
- Receiver Type: 66 Channel GPS engine
- GPS Sensitivity (Tracking): -165 dBm
- GPS Acquisition Time: Cold ~ 34sec ; Warm ~ 33 sec ; Hot < 1 sec
- GPS Accuracy: 1.8m (CEP95)

## 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-based reporting based on time, duration, distance, course change & more
- Message Storage Capacity: 2800 messages
- Fixed Reporting Times
- Data transmission modes: GPRS & SMS
- 3-Level Watchdog System
- GSM Tracking (up to 1000 messages/month; transmission of latitude / longitude)

## Accessories

Please visit our website ([www.telic.de](http://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.

## Hardware Features

- Small & compact housing (Optional: Robust & water protected housing with IP69K Protection Class)
- Internal GSM & GPS Antennas
- Integrated 3D Accelerometer for motion detection
- Robust SIM card reader (1,8/3 V)
- Status Indicators: 3 LEDs (GSM; GPS; Battery)
- Configurable Button: Power on/off or alert button
- Type Approvals: CE

## Power Management

- External voltage range: 5V (7-32 V with Telic accessories)
- Battery Capacity: 1320 mAh (LiPo)
- Battery Safety compliant with IEC 62133 also for the extended operating temperature range
- Typical consumption in sleep Mode (internal battery): 0,07 mA

## Hardware Characteristics

- Dimensions:
  - Picotrack Power: 57x38x19 mm
  - Picotrack Power with IP69K housing: 95x50x39 mm
- Operating temperature: -20°C to +60°C
- Recharging temperature: 0°C to +45°C
- Weight:
  - Picotrack Power: 50 g
  - Picotrack Power with IP69K housing: 100 g

## About Telic AG

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

Telic products are designed according to automotive and industrial standards and manufactured in Germany. Telic AG's solutions are deployed on a worldwide basis in the transport and logistics, automotive, insurance and security 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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Product specifications are subject to change without prior notice.

