Picotrack

The matchbox-sized device for tracking valuable assets

Picotrack products are small sized devices 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. These products provide also GSM-based position estimates (Latitude / Longitude) when GPS is not available.

Picotrack devices are available with 660 mAh or 1320 mAh (Picotrack Power) rechargeable batteries.

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
- Can be used for applications requiring shock detection
- Made in Germany

Sample Applications

- Security applications for monitoring / recovering goods and products of high value

Tracking of…

- Transport Boxes, Pallets, cartons
- Goods and products of high value
- Product Prototypes
- Confidential documents

High Value Products

Transport Boxes

Confidential Documents

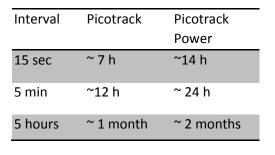Cash Transport

Pallets

High Value Goods

The following table provides the estimated battery lifetime of the Picotrack 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	Picotrack Power
15 sec	~ 7 h	~14 h
5 min	~12 h	~ 24 h
5 hours	~ 1 month	~ 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
- Fixed Reporting Times
- Data transmission modes: GPRS & SMS
- 3-Level Watchdog System
- GSM Tracking (up to 1000 messages/month; transmission of latitude / longitude)

Type Approvals

- CE

Hardware Features

- Housing: Small & compact design
- GSM & GPS Antenna: Internal
- 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

Power Management

- External voltage range: 5V (7-32 V with Telic accessories)
- Battery Capacity: Picotrack: 660 mA (LiPo) | Picotrack Power: 1320 mAh (LiPo)
- Typical consumption in sleep Mode (internal battery): 0,07 mA

Hardware Characteristics

- Dimensions: Picotrack: 57x38x15 mm | Picotrack Power: 57x38x19 mm
- Operating temperature: -20°C to +60°C
- Recharging temperature: 0°C to +45°C
- Weight: Picotrack: 40 g | Picotrack Power: 50 g

Accessories

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

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.

How to contact us