

Picotrack 4G

The matchbox-sized tracking device for sophisticated telematics applications



Key benefits

- The matchbox sized compact device fits in transport boxes of almost any kind
- Modern and trend setting LTE Cat M1 technology with proven 2G fallback
- GNSS, based on a combination of GPS und Glonass ensures a precise location and a fast first fix
- Excellent battery life time up to several months, depending on configuration
- Data transmission via Cat M1

The table below includes estimated battery life time scenarios with one battery load, depending on transmission intervals.

The following parameters can have influences on the mentioned values: operation temperature, or the frequency band of the data transmission.

Data transmission intervals every:	Picotrack 4G
15 sec	~ 24 hours
5 min	~ 5 days
5 h	~ 2 months

The Picotrack4G is an extremely small and compact telematics device with a very long battery life time for monitoring consignments of goods or humans. The device has very good GNSS and cellular characteristics despite its small size.

An IP69K housing is available as an accessory for location under difficult environmental conditions.

The new Picotrack 4G is equipped with the trend setting LTE Cat M1 technology. In areas where the new network is not yet sufficiently available, the Picotrack 4G continues to work with the proven 2G technology as a fallback.

The combination of the American Navstar GPS and the Russian Glonass leads to a very precise positioning and a fast first fix.

Typical applications

- Tracking of valuable goods
- Security relevant monitoring and observation by police and other authorities
- Long term monitoring where no external power supply is available and the device can only be supported from ist own battery.

Tracking of...

- Transport Boxes, pallets, cartons
- Goods and products of high value
- Confidential documents
- Security / safety sensitive items
- People



Transportboxes



Cash transport



Products of high value

Picotrack 4G

Mobilfunk / GNSS

- LTE Cat M1 / EGPRS
- Receiver type: 72-channel GNSS receiver
- GPS | GLONASS
- GNSS sensitivity: -167 dBm
- Positions acquisition time:
 - Cold 29 sec
 - Hot 1 sec
- Position accuracy: 2.5m CEP50

Software

- Download Over The Air (DOTA)
- Device configuration via TCP/IP, serial, or SMS
- FTP configuration file download
- Event based wake up: time / motion
- Event based reporting based on time, duration, distance, course change
- Up to 50 rectangular geofence zones
- Storage capacity for reports: ~20000 (only position data)
- Fix reporting times
- Data transmission modes: TCP/IP
- 3-Level Watchdog System

Accessories

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

Hardware Features

- Integrated mobile communication and GNSS antennas
- Integrated 3D acceleration sensor for motion detection
- Robust SIM card holder for mini SIM cards
- Status indicators: 3 LEDs (mobile communication; GNSS; Battery)
- Approval: CE
- **Optional:** Extremely robust dust and water protected housing: IP69K

Ports

- TTL via Micro-USB: configuration & tracing | charging of the battery via Micro USB

Stromversorgung und Verbrauch

- External voltage: 5V
- Battery capacity: 1320 mAh (LiPo)
- Battery safety compliant according to IEC 62133
- Typical consumption in sleep mode: ≤ 0.1 mA

Characterisitic (Hardware)

- Size:
 - Picotrack 4G: 57 x 38 x 19,5 mm
 - Picotrack 4G with IP69K housing: 95 x 50 x 39 mm
- Operating temperature: -20°C bis +60°C
- Charging temperature: 0°C bis +45°C
- Weight:
 - Picotrack 4G: 51g
 - Picotrack 4G with IP69K housing: 101g