

Picotrack 4G

The matchbox-sized tracking device for demanding telematics applications

The Picotrack 4G is an extremely small and compact telematics device with a very long battery lifetime for monitoring shipments of goods or people. The device has very good GNSS and cellular characteristics despite its small size. An IP69K housing is available as an accessory for locating in demanding environmental conditions.

The new Picotrack 4G is equipped with current 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.

Key benefits

- The matchbox sized compact device fits in transport boxes of almost any kind
- Modern and current 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 lifetime up to several months, depending on configuration
- Data transmission via Cat M1

Exemplary applications

- Tracking of valuable goods
- Security-related surveillance and observation by police and other authorities
- Long-term monitoring where no external power supply is available and the device can only be powered from its own battery

Tracking:

- Transport boxes, pallets, packages
- Goods and products of high value
- Confidential documents
- Security/safety relevant goods
- People

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

The following parameters can influence the mentioned values: Operation temperature, or the frequency band of the data transmission.

Data transmission intervals every:	Battery life
15 seconds	~ 24 hours
5 minutes	~ 5 days
5 hours	~ 2 months

Technical Data

Mobile radio / GNSS

- LTE Cat M1 / EGPRS
- Receiver type: 72-channel GNSS receiver
- GPS | GLONASS
- GNSS sensitivity: -167 dBm
- Position acquisition time:
 - Cold 29 seconds
 - Hot 1 seconds
- 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, change of course
- Up to 50 rectangular geo-fence zones
- Storage capacity for reports: ~20000 (only position data)
- Fixed 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 to this product.



Hardware Features

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

Hardware Ports

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

Power Management

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

Hardware Characteristic

- 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