MiniTrack™

Compact, Waterproof, Cost-Effective Fleet Management Device with BLE Connectivity

The MiniTrack is Cellocator's cost-effective entry-level track & trace fleet management unit. The MiniTrack targets a wide range of market segments, including private and commercial vehicles as well as motorcycles and electric bikes.

- Compact size
- IP67 – suitable for rough, outdoor environmental conditions
- LEDs to ensure a quick & easy installation
- Mobile app for driver identification (via BLE)
- Rechargeable backup battery
- 5 digital IOs (2 inputs & 2 outputs & 1 ignition)

Use Cases

Vehicle Fleets consisting of 2 or 3-Wheeled Vehicles (motorcycles/bikes/scooters)

The MiniTrack is a compact solution, ideal for companies operating fleets of 2 or 3-wheeled vehicles thanks to its movement detection capabilities, small size, easy installation and IP67 compliance. The MiniTrack provides quality, low-cost monitoring for virtually any type of smaller vehicle fleet, including security and location alerts.

Insurance Companies Specializing in Private Vehicles

Insurance companies can offer the MiniTrack as an add-on for their customers - primarily for usage-based insurance (UBI) and "pay as you drive (PAYD)" plans - by identifying the driver using the iDrive application. This can be especially relevant for customers with young drivers named in their policy.

Mass Market Track & Trace

The MiniTrack is a perfect fit for the mass market (fleet management companies, insurance companies, cellular carriers, etc.), where large numbers of telematics devices need to be integrated with a simple, cost-effective and easy to install track and trace device with BLE connectivity.

Extra Security Device

The MiniTrack can also be used as a cost-effective secondary security device in the vehicle. For example, if the main fleet device has been harmed during a car theft attempt (and the SIM or main/backup battery are taken out), the MiniTrack device will start working instead of the main device.

iDrive App

- iDrive is Cellocator's driver identification app, enabling communication with the MiniTrack device, and allowing control of the vehicle immobilizer using a smartphone BLE interface.

- Three levels of identification are required: Company ID, the vehicle's license plate number, and the private Driver ID code.

- The iDrive app is an offline app which doesn't require any server-side communication.

Download on the **App Store**

GET IT ON **Google Play**

Highlights

- 2G modem
- Supports GNSS (GPS, GLONASS)
- BLE connectivity, supporting iDrive app –for driver ID and immobilizing
- IP67 compliant
- Backup battery
- 2 multi-color LEDs for GSM/GPS signal indication
- Memory storage capability for 2.5K buffer messages
- 3D accelerometer
- Molded 10 wire harness
- Efficient power management based on defined operational scenarios
- Main functionalities:
  - Cell ID
  - Movement detection
  - Orientation change detection
  - Tampering detection
  - Crash detection
  - Towing detection
  - Geo fence
  - Application FOTA
- Certifications: CE(RED), E-mark, FCC

Width: 34mm

Height: 90mm

Depth: 13.8mm

MiniTrack Specifications

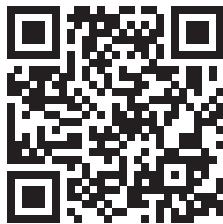| Communication	
GSM Modes	2G:GPRS Class 10
Bands	850, 900, 1800, 1900MHz
Power Output	GSM900/GSM850@class 4, GSM1800/GSM1900@class 1
SIM	Internal, replaceable; eSIM (HW readiness)
Antenna	Internal, Quad band GSM antenna
Packet Data	TCP/IP, UDP/IP
SMS	PDU
BLE	4.1
GPS	
Technology	Integrated in BB Chipset
Sensitivity (Tracking)	-163dBm
Acquisition (normal)	Cold<35Sec, Hot<1Sec
Antenna	Internal (Ceramics GPS antenna)
Inputs & Outputs	
Inputs	1 internally pulled down input dedicated for ignition switch 2 internally pulled up inputs with assignable functionality and configurable polarity
Outputs	2 general purpose open drain outputs (250mA max) with assignable functionality
Accelerometer	3D, 16g Max range, 12-bit representation, 1mg resolution (2g range)

Interfaces	
COM port	Baud rate 115000bps TTL levels (external TTL-USB adaptor) 8 bit; 1 Stop bit, No Parity Configuration update Firmware upgrade
Harness	10 Wire Integrated harness (Open wires)

Power		
Input Voltage	9-32VDC	
Average Current Consumption (12V)	Hibernation:	1mA
	Listen Mode with BLE:	~12mA (Depending on peeking intervals)
	Tracking mode With BLE:	~27mA
Internal Battery	Li-Ion polymer, 3.7V, 80mAh, rechargeable Embedded NTC for temperature controlled charging Operating temperature: 0 (65% charge) to +45°C	
	Battery Monitoring:	Temperature & Voltage
	Autonomy:	48 messages from a fully charged battery at a TX rate of 1/5 minutes at room temperature
	Protections:	over current, overcharge and over discharge

Vehicle Environment Immunity	
Immunity	Compliant with ISO 7637 test level 1-4

Environment	
Temp, operating	-30°C to +70°C full performance
Temp, storage	-40°C to +85°C
Humidity	95% non-condensing
Protection	IP67
Vibration, Impact	ISO 16750
Mounting	Tie-wraps and/or two-sided adhesive

Certifications	
FCC	Part 15 Subpart B, part 22/24 compliant
RED (CE)	2014/53/EU
E-mark	ECE R 10
IC	RSS-132,133,210 and ICES-003

Dimensions & Weight	
Dimensions	90MMx34MMx13.8MM
Weight	46.5G

Cellocator iDrive App:

Cellocator
Keep on Track

Cellocator
by **PowerFleet®**