

ETLOC-50 SECURITY



Main product features:

- **No monthly fees** – you can communicate with the device directly via SMS or data (user can choose)
- **Smart phone app** (iOS, Android) for easier control of the functions
- **History of journeys** - the unit stores history of journeys from last few days. The journeys can be viewed via the mobile application
- Approved independent **stopping output** - you can remotely and safely stop the vehicle
- **Alarm input** - ETLOC-50 SECURITY can be connected to a car alarm and in case of alarm situation it can alert the owner of the car
- **Backup battery** - with optional external backup battery you can track the vehicle for 30 hours minimum with car battery disconnected (which is a standard theft procedure)
- **Battery alarms** – ETLOC-50 SECURITY enables backup and car batteries voltage monitoring. Owner can be alerted when car battery is in bad condition and needs to be replaced or in case thief disconnects the car battery
- **GPSS protection** - the user/owner of the vehicle can remotely (just by a phone call, or SMS) activate a higher GPS protection function and in case the vehicle moves he is alerted
- **Anti-jamming** – in case of jamming detection ETLOC-50 SECURITY can execute predefined actions (alert user whenever possible, switch relay etc.)
- **Accelerometer** - depending on predefined action ETLOC-50 SECURITY alarms in case of car accidents, wheel thefts etc.
- **SOS button** - possibility to connect SOS button. After a user presses the button ETLOC-50 SECURITY acts accordingly as predefined (alerts a family member etc.)
- **Integrated switching relay** allowing to control devices and electrical circuits in the vehicle remotely
- **Remote firmware updates (FOTA)** - firmware can be modified according for customers with unstandardized demands (alcohol locks,...)
- **Advanced power consumption management** – unit can operate in 3 different modes
- **Optional accessories** available: backup battery 6V 1,3Ah, S-module

Technical specification:

GSM Specifications	
Frequency	Quad-Band GSM 850/900/1800/1900 MHz Compliant to GSM phase 2/2+
GPRS	GPRS multi-slot class 12/10 - Class 4 (2W @ 850/900 MHz) - Class 1 (1W @ 1800/1900 MHz)
SIM card	Micro
Integrated GSM antenna (optional version ETLOC-50E SECURITY with external GSM antenna available on demand)	
GPS Specifications	
GPS Chipset	22 tracking / 66 -acquisition channels GPS receiver GPS L1, C/A Code
Position accuracy (CEP)	Autonomous < 2,5 m
TTFF (Open sky)	Cold start: 32 s (typical) Warm start: 3 s Hot start: < 1 s
Sensitivity	- 165 dBm
Optional version with GPS/GLONASS/GALILEO/QZSS available on demand	
Interfaces	
Digital outputs	Switching Relay – the maximum current carrying capacity of the switching relay is 12/24 V DC/ 5 A (max 60 W) STOP output - max 350mA
Analog inputs	Ignition (+12/24 V)
Indicator LED	Red - GSM, Green - GPS, Yellow - service
Digital inputs	INPUT3 (+12/24 V) / INPUT (GND)
GSM/GPS Antenna	GSM connector (ETLOC-50E SECURITY model)
USB port	
General Specifications	
Processor	Silicon Labs
Dimensions	84x54x20 mm
Weight	51 g
Power supply	12/24 V DC
Operating temperature	-40 °C to +85°C
Power consumption	Ready – the device is ON and responds to all commands (GPS is OFF) – max. 20 mA GPS is ON – the device is ON and responds to all commands (GPS is ON) – max. 40 mA STAND BY – the device is OFF until the ignition is turned on – 0 mA
Air Interface Protocol	
Transmit protocol	TCP, UDP, SMS
Battery low voltage alarm	Integrated A/D converter which enables voltage measurement
Towing alarm	Integrated accelerometer