

SBC AVL 4G

Compact tracking unit for advanced telematics applications



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

By support of 1-wire- and serial interfaces, the SBC-AVL 4G perfectly suits for use in demanding commercial telematics applications.

The setup of the device is facilitated by extremely compact dimensions and integrated antennas. A further cable installation is not necessary.

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

Typical applications

- Fleet Management
- Tracking of vehicles, also for theft protection
- Predictive maintenance
- Driver identification

Tracking of...

- Trucks
- Commercial vehicles
- Fleet of Taxis and rental cars

Key benefits

- Modern and trend-setting LTE Cat M1 technology with proven 2G fallback
- GNSS, based on a combination of GPS und Glonass ensures a more precise location and a fast first fix
- Simple installation of the devices, since all antennas are integrated in the device
- Interfaces for connecting sensors and external devices
- Very low power consumption in sleep mode
- An integrated back-up battery allows the device operation even without external power supply

Prepared for:

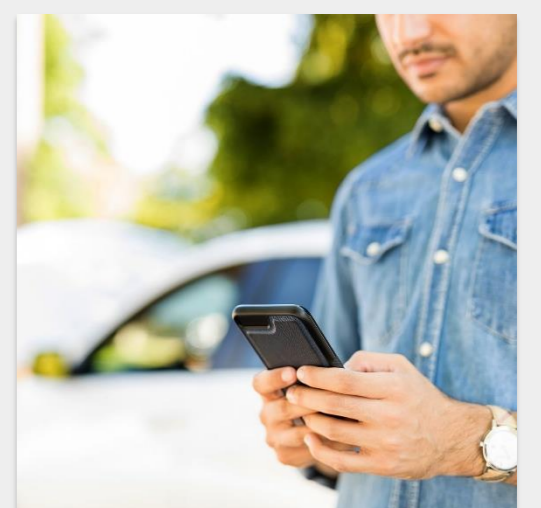
- Data transmission via NB IoT
- Data security concepts
- Data transmission via Flat Buffer



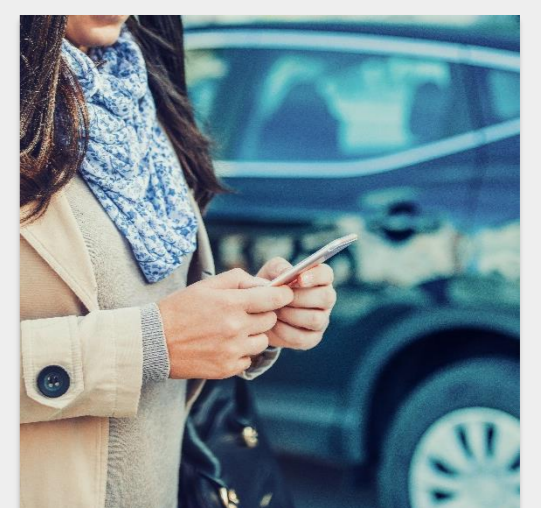
Fleet management



Taxi-Fleet



Car Sharing



Tracking of stolen vehicles

SBC AVL 4G

Cellular / GNSS

- LTE Cat M1 / EGPRS
2G as fallback
- GPS | GLONASS
- Receiver type: 72-channel GNSS receiver
- GNSS sensitivity: -167 dBm
- Positions acquisition time:
 - Cold 29 sec
 - Hot 1 sec
- Position accuracy: 2.5m CEP50

Software

- Software Download Over The Air (DOTA)
- Device-configuration: TCP/IP, USB, or SMS
- FTP configuration file download
- Event based wake up: time / motion/ input based
- Event based reporting by time, duration, distance, course change
- Up to 50 rectangular geofence zones
- Memory capacity for messages: ~20.000 (only positioning data)
- Data transmission modes: TCP/IP
- RS232 transparent mode & support of local RS232-protocols
- 3-Level Watchdog System
- CellLocate Mobile Communication in LTE Cat M1 (optional)
- Driver identification for up to 50 IDs

Accessories

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

Hardware Features

- Housing: Small & Compact Design
- Integrated mobile communication – and GNSS antennas
- Integrated 3D Accelerometer for Motion detection
- Robust SIM card holder (1.8/3V) for Mini SIM cards
- Status Indicators: 3 LEDs (Mobile communication; GNSS; Battery)
- Approvals: E1, CE

Hardware Interfaces

- Ignition Status (On/Off): 1x
- General Purpose Inputs(digital/analogue): 1x
- Digital Outputs: 2x (300 mA max)
- 1-Wire: iButton ID key|Temperature Sensor (DS18S20; DS18B20; DS19221)
- RS232: 1x (LVTTTL; 3.3V)
- USB: Configure & Trace | Battery recharging

Power Management

- External voltage range: 7V -32V
- Battery Capacity: 660 mAh (LiPo)
- Battery Safety compliant with IEC 62133 for extended operating temperature range
- Typical consumption in sleep Mode (external source): $\leq 0,5$ mA (@12V)
- Typical consumption in sleep Mode (internal battery): $\sim 0,07$ mA

Hardware Characteristics

- Dimensions: 74x49x20 mm
- Operating temperature: -30°C to +70°C
- Recharging temperature: 0°C to +45°C
- Weight: 50 g