

## SBC-AVL Power

### Tracking devices for advanced telematics applications



With its support for 1-wire and RS232 interfaces, the SBC-AVL Power is designed for advanced telematics applications for Light to Medium-sized commercial vehicles. Security applications can be addressed with the integrated backup battery and GSM Jamming Detection feature.

Additionally, the combination of a compact size, high sensitivity GPS/Glonass receivers and internal antennas helps minimize installation-related costs.

#### Key Benefits

- Implement advanced telematics applications with 1-wire and Flexible RS232
- The compact size enables a high degree of freedom for installing the device
- Ultra low power consumption in sleep mode minimizes the impact on the vehicle's battery
- Internal GSM/GPS antennas minimize installation-related costs
- Integrated backup battery and GSM Jamming Detection for security applications
- Can be used with GPS or Glonass
- Rapid evaluation of the product with the Telic trial server

#### Sample Applications

- Fleet management
- Stolen Vehicle Recovery (SVR)
- Preventive vehicle maintenance planning
- Driver Identification
- Reading data from external RS232 peripheral devices (e.g. RFID, Data Loggers...)

#### Tracking of...

- Light to Medium commercial vehicles
- Fleets of taxis, rental cars, delivery vans...
- Public transportation vehicles

Fleet Management



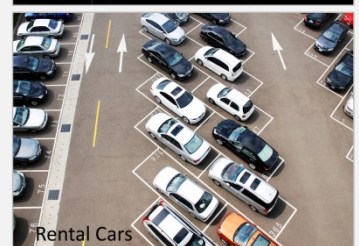
Vehicle Telematics



Taxi Fleet



Stolen Vehicle Recovery



Rental Cars



Public Transportation

## Cellular / GNSS

- GSM/GPRS: Quad Band
- Receiver Type: 56-channel GPS engine
- GPS | GLONASS
- GPS Sensitivity (Tracking): -161 dBm
- GPS Acquisition Time: Cold 29 sec; Warm 28 sec; Hot 1 sec
- GPS Accuracy: 2.5 m CEP

## Software (\*)

- Software Download Over The Air (DOTA)
- Device Configuration: USB / GPRS / SMS
- FTP Configuration File Download
- Up to 50 rectangular geofence zones
- Roaming Network support
- Timer / motion / input based wake-up
- Event-based reporting: Based on time, duration, distance, course change, temperature thresholds & more
- Message Storage Capacity: ~ 20000 (location data only)
- Data transmission modes: GPRS & SMS
- RS232 Local Protocol Handler | RS232 Transparent Mode
- 3-Level Watchdog System
- Data for Driver Behavior Analysis
- Data for Maximum Speed Detection
- Crash Situation Analysis
- GSM Jamming Detection
- Local Driver Authorization for up to 50 IDs

## Accessories

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

## Hardware Features

- Housing: Small & Compact Design
- Internal GSM & GPS Antennas
- Integrated 3D Accelerometer for Motion Detection
- Robust SIM card reader (1,8/3 V)
- Status Indicators: 3 LEDs (GSM; GPS; Battery)
- Type Approvals: E1; FCC

## Hardware Interfaces

- Ignition Status (On/Off): 1x
- General Purpose Inputs: 1x
- Digital Outputs: 2x (300 mA max)
- 1-Wire: iButton ID key | Temperature Sensor (DS18S20; DS18B20; DS1921G)
- RS232: 1x (LVTTTL; 3.3V; RS232 at 12V requires accessory part # 16105)
- USB: Configure & Trace | Battery recharging

## Power Management

- External voltage range: 7V - 32V
- Battery Capacity: 660 mAh (LiPo)
- Typical consumption in sleep Mode (external source): ≤ 0,5 mA (@12V)
- Typical consumption in sleep Mode (internal battery): ≤ 0,08 mA

## Hardware Characteristics

- Dimensions: 74x49x20 mm
- Operating temperature: -30°C to +75°C
- Recharging temperature: 0°C to +45°C
- Weight: 50 g

(\*) Exemplary list of software features. Please contact us to learn how we can address your use cases with our extensive set of software features as well as hardware options.

## About Telic

Telic GmbH, based in Germany, develops and markets telematics and telemetry products on a worldwide basis. The telematics products are deployed in a B2B context for professional vehicles (e.g. trucks, construction and agricultural vehicles), for asset tracking as well as for applications used in the insurance industry.

These products are based on leading mobile network standards like GSM and Global Navigation Satellite Systems (GNSS) technologies such as GPS and GLONASS. Telic specializes in supporting providers of tracking centres and Telematics Service Providers (TSPs) with the integration of Telic Products into their tracking or M2M solutions.

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