

SBC-AVL Power

Compact tracking unit for advanced telematics applications



With its support for 1-wire and serial interfaces, the SBC-AVL Power is perfectly suited for demanding telematics applications for commercial vehicles.

System integrators can use features such as the integrated backup battery, GSM Jamming Detection, GSM Tracking and driver validation features to address security applications for vehicle fleets.

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 the 1-wire and serial interfaces
- The compact size enables a high degree of freedom for installing the device
- Internal GSM/GPS antennas minimize installation-related costs
- Ultra low power consumption in sleep mode minimizes the impact on the vehicle's battery
- Integrated backup battery and GSM Jamming Use advanced features such as the integrated battery, GSM Tracking, GSM Jamming Detection and driver validation for security applications
- Can be used with GPS or Glonass

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



Car Sharing



Public Transportation

Cellular / GNSS

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

Software (*)

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

Accessories

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

(*) 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.

Hardware Features

- Housing: Small & Compact Design
- Internal Cellular & GNSS Antennas
- Integrated 3D Accelerometer for Motion detection
- Robust SIM Card Reader (1.8/3V)
- Status Indicators: 3 LEDs (GSM; GPS; Battery)
- Type Approvals: E1; FCC

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; 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)
- Battery Safety compliant with IEC 62133 for the extended operating temperature range
- Typical consumption in sleep Mode (external source): $\leq 0,5$ mA (@12V)
- Typical consumption in sleep Mode (internal battery): $\leq 0,08$ mA

Hardware Characteristics

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

About Telic AG

Telic AG offers a wide range of products and development services, from the initial concept design all the way to the mass market production of customer specific solutions which are deployed in telematics, M2M and IoT applications.

Telic telematics devices are designed per automotive and industrial standards and manufactured in Germany. Telic AG's telematics solutions are deployed on a worldwide basis in the transport and logistics, automotive and insurance sectors, and more generally in the sectors for machinery engineering products as well as in Industry 4.0 applications.

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Please contact us via our website for a quotation or if you require more details about our products.

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