Solutions Start Here

SBC AVL 4G

Compact tracking unit for advanced telematic applications

The SBC AVL 4G is equipped with the latest 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.

Key benefits

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

Exemplary applications

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

Tracking:

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

Prepared for:

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

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For more information visit www.telic.de

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Technical Data

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 Output: 1x (300 mA max)
- 1-Wire: iButton ID key|Temperature Sensor (DS18S20; DS18B20; DS19221)
- RS232: 1x (LVTTL; 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): ≤ 0,5 mA (@12V)
- Typical consumption in sleep Mode (internal battery): ~ 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

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