SBC3 CAN 4G

The robust tracking unit for advanced telematics applications

The new SBC3 CAN 4G is equipped with the future-oriented LTE Cat M1 technology. In areas where the new network is not yet sufficiently available, the SBC3 CAN 4G also transmits with the proven 2G technology as a backup.

With the support of 1-wire and serial interfaces, the SBC3 CAN 4G is perfectly suited for use in demanding commercial telematics applications.

The commissioning of the device is very simple and fast, as all antennas are integrated and therefore no additional cable installation is required.

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

With its robust housing of the protection class IP6K6K, the device is also suitable for outdoor use under environmental conditions.

Typical Applications

- Fleet management
- Trailer telematics
- Vehicle maintenance planning
- Locating stolen vehicles
- Driver identification

Tracking:

- Commercial vehicles
- Trailers
- Construction machinery and agricultural vehicles

Key Benefits

- Modern and advanced LTE Cat M1 technology with proven 2G fallback
- GNSS, consisting of a combination of GPS and Glonass, ensures precise positioning and a quick first fix
- Easy installation as all antennas are integrated and built into the unit
- Interfaces for connecting sensors and external devices
- Very low power consumption in sleep mode
- Integrated backup battery allows the unit to continue transmitting even without external power supply
- The SBC3 CAN 4G is ready for operation immediately after switching on, even after a longer standstill period of the vehicle and a discharged backup battery, even without a backup battery if necessary
- Dust- and water-protected housing of protection class IP6K6Kfor use in harsh environmental conditions
- E1 approval for vehicle applications

Prepared for:

- Data transmission via NB IoT
- Data Security concepts
- Flat buffer data transmission

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For more information visit www.telic.de
Telic has a policy of continuous development and improvement and consequently the equipment may vary from the description and specification of this document.

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Technical Data

Cellular / GNSS

- LTE Cat M1 / EGPRS 2G as Fallback
- GPS | GLONASS
- Receiver type: 72-channrl GNSS receiver
- GNSS sensitivity: -167 dBm
- Positions acquisition time:
  - GPS: Cold 29 seconds
  - Hot: 1 second
- Position accuracy: 2,5 m CEP50

Software

- Download Over The Air (DOTA)
- Device-configuration: TCP/IP, seriel 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 und SMS
- RS232 transparent mode & support of local RS232-protocols
- 3-Level Watchdog System
- CellLocate Mobilfunkortung in 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

- Extremely robust dust- and waterproof housing: IP6K6K according to ISO 20653 for road vehicles
- Integrated mobile radio and GNSS antennas
- Integrated 3D accelerometer for motion detection
- Robust SIM card holder (1.8/3V) for mini SIM cards
- Status indicator: 3 LEDs (mobile communication; GNSS; battery)
- Mounting: screws and via flanges
- Approvals: CE, E1

Hardware Interfaces

- Ignition signal (on/off): 1x
- General-purpose inputs 2
- Analogue inputs 1xDigital outputs: 1x
- 1-Wire: iButton ID key | temperature sensors (DS18S20; DS18B20; DS19221)
- CAN Bus: Configurable CAN; OBD-II; FMS
- RS232: 1x for peripheral devices1x for configuration of the unit

Power Management

- External voltage range: 7V -32V
- Battery capacity: 660 mAh (LiPo)
- Battery safety according to IEC 62133 also for the extended operating temperature range
- Typical consumption in energy-saving mode (external source): ≤ 1 mA (@12V)
- Typical consumption in energy-saving mode (internal battery): ≤ 0.14 mA

Hardware Characteristics

- Dimensions: 150x65x45 mm
- Operating temperature: -30 °C bis +70 °C
- Recharging temperature: 0 °C bis +45 °C
- Weight: 220 g