

G62 2G /4G Cellular

Rugged, compact, weatherproof GPS tracking device



The G62 is a rugged, compact and waterproof GPS tracking device available for 2G, 4G LTE-CatM1 and NB-IoT networks globally. The electronics, backup battery and antennas are all located within the tough nylon-glass housing offering the ability to track and monitor any asset in the most demanding conditions.

FEATURES

- IP67 Rated
- High Sensitivity GPS with LNA
- 2G or 4G LTE Cat-M1 and NB-IoT
- 3D Accelerometer
- Internal backup battery
- 1 x Ignition Input
- 2 x Digital Inputs
- 1 x Digital Output
- Driver ID (1-wire iButton)

APPLICATIONS



Vehicle and
Fleet Tracking



Anchoring and
Security of
Assets



Rental
Equipment



Mining
Equipment



Run Hour
Monitoring

MECHANICAL SPECIFICATIONS

Rugged IP67 rated housing Nylon Glass Composite housing protects against the elements. This allows the G62 to be installed internally or externally on any asset in the most demanding conditions.

Dimensions L 125 x W 80 x H 25mm

Operating Temperature -20°C to +60°C¹
1) On external power
Below 0°C and above +40°C the internal backup battery will not be charged as a safety precaution due to the dangers associated with charging batteries at extreme temperatures.

Harness 7 wire harness, 1m length.

POWER

Automotive Power 8V to 36V DC (max)

Back-up Battery 1100mAh LiPo internal backup battery pack

Self-resetting fuse The G62 passes stringent automotive power “load dump” tests to ensure that it will continue to operate in the harshest electrical systems. A built-in self-resetting fuse makes installation easy and safe.

OTHER

Internal Memory Sufficient memory to store over 50,000 records. Normally data is sent to the server immediately but if the device is out of range there is space to ensure no data is lost – for many weeks of driving!

3-axis accelerometer Allows the G62 to detect harsh driving events, and to go to ‘sleep’ when not moving, resulting in extremely low standby current

CONNECTIVITY

SIM Size Micro (3FF) size cellular SIM card

2G or 4G The G62 can be manufactured for specific markets around the world.

4G Modem UBLOX SARA-R410-02B
This modem can be configured to operate on either LTE-CatM1 or LTE-NB1 networks.

Supported LTE bands:
1*, 2, 3, 4, 5, 8, 12, 13, 18, 19, 20, 25, 26*, 28 (* roaming bands)

2G Modem 2G: SARA-G350-02S-01
850/900/1800/1900 MHz

GPS TRACKING

GPS and Cellular Antenna Internal GPS and cellular antennas tuned by RF laboratories for optimal performance. Having the antennas inside the housing makes for very simple and quick installation.

GPS/GLONASS Tracking U-Blox EVA-M8Q, High sensitivity assisted GPS receiver with TCXO, 72 channel (-167dBm)

AssistNow Offline AssistNow Offline aiding data or extremely fast time-to-first-fix and performance in urban canyon environments

Low Noise GPS Amplifier (LNA) GPS signals are boosted by a special low-noise amplifier (LNA). This allows operation where normal units will fail to receive GPS signal

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INPUTS AND OUTPUTS

3 x Digital Inputs 1 x Ignition input, permanent internal pull down, 0-50V
2 x Digital Inputs, configurable pull-up/pull-down, 0-50V

1 x Digital Output 1 x Switched Ground digital output¹, easily wired up to switch external lights, relays, buzzers etc. Can be used to immobilise a vehicle.
1) Shared with Analogue Input, meaning only 1 can be used at a time

iButton Low cost 1-wire iButton reader can be used for Driver-ID

FIRMWARE SMARTS

Auto-APN Auto-APN allows the G62 to analyse the SIM card and select the correct APN details from a list that is pre-loaded in the device's firmware.

Text Message Setup The G62 can be sent text messages to set the APN, server and other details

Flexible Logging Parameters The G62 trip logging is flexible and can be configured to log based on a variety of parameters including:

- Elapsed time
- Distance travelled
- Change in heading
- Change in speed
- On Stationary
- Accelerometer events (harsh driving)

Accident and Rollover Detection The G62 uses the built-in accelerometer to detect high G impacts such as accidents and rollovers and reports these events to the server for emergency alerting.

Harsh Driving The G62 automatically calibrates its built-in 3 axis accelerometer and uses this to detect harsh driving events:

- Excessive acceleration
- Harsh braking
- Cornering at speed

These events are logged in the G62 along with additional event statistics that allow back-end server platforms to perform sophisticated driver profiling and scoring.

Accident Data The G62 keeps a second-by-second "black box" recording of valuable GPS and accelerometer data for a two hour window. This data can be automatically uploaded to the server when an accident is detected, or it can be requested manually.

Geo-Fences The G62 has the capacity to hold hundreds of geo-fences that can be downloaded to it from the server. The G62 can use this geo-fence information to:

- Implement arrival and departure alerts
- Implement speeding zones with audible warning alerts
- Implement "No-go" and "Keep-out" areas
- Automatically control outputs, e.g. to switch on warning lights when inside a special area.

Ignition Detection The G62 can determine a trip has started based upon:

- Wired Ignition input (voltage on/off)
- Emulated Ignition (GPS movement)
- Run Detect (Voltage Increases)

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