



# G62

CELLULAR 2G OR 4G LTE-M / NB-IOT

## OVERVIEW

Ultra-rugged, feature-rich vehicle, trailer, or heavy equipment tracking device with customizable inputs/outputs, remote immobilization for fleet management, equipment monitoring, driver ID, theft recovery, and more.

## APPLICATIONS



Fleet Management



Real-Time Vehicle Tracking



Trailer Tracking



Theft Recovery



Driver ID



Driver Safety & Behavior



Accident & Rollover Detection



Remote Immobilization



Lone & Remote Worker Safety



Run Hours Monitoring



Preventative Maintenance



Digital Logbooking

## FEATURES



High-precision GPS/GLONASS tracking device



Hardwired to permanent power for real-time tracking



Weatherproof and ultra-rugged IP67 Housing with compact and ergonomic design



Internal Backup Battery in case of loss of power or tampering



2 x Digital Inputs, 1 x Switched Ground Digital Output, 1 x Ignition Digital Input, Switched Power Out



Configure iButton® for Driver ID



Run hour monitoring, accident and rollover detection, speeding, harsh braking, and more

## CONNECTIVITY

2G	2G: SARA-G350-02S-01 850/900/1800/1900 MHz
4G LTE-M / NB-IoT	uBlox SARA-R410M Modem operates on all major global LTE-M and NB-IoT bands.  Supported LTE bands: 1*, 2, 3, 4, 5, 8, 12, 13, 18, 19, 20, 26*, 28 (*roaming bands)
SIM SIZE & ACCESS	Internal Micro 3FF SIM

## LOCATION

MODULE	uBlox EVA-M8
CONSTELLATION	Concurrent GPS / GLONASS
CHANNELS	72 Channel High Sensitivity Receiver
TRACKING SENSITIVITY	-167dBm industry-leading tracking performance
ASSISTNOW OFFLINE	GNSS aiding data (such as ephemeris, time, coarse position) for a faster Time To First Fix (TTFF).
LOW NOISE AMPLIFIER	GPS signals are boosted by a unique low-noise amplifier (LNA) allowing operation where other units fail.

## POWER

INPUT VOLTAGE	8-36V DC (max)
SELF-RESETTING FUSE	Built-in self-resetting fuse makes installation simple and safe. Stringent automotive power "load dump" tests are conducted to ensure operation in the harshest electrical systems.
OPERATING CURRENT	~25/50mA when moving ~150mA battery charging
SLEEP CURRENT	<1mA
BACK-UP BATTERY	1100mAh LiPo internal backup battery pack

## MECHANICS/DESIGN

DIMENSIONS	L 125 x W 80 x H 25 mm
WEIGHT	170g
HOUSING	Ultra-Rugged Nylon Glass
IP RATING	IP67 rated housing ensures device can withstand fine dust, high-pressure spray, submersion for 30 mins in 1m of water, and extreme temperatures.
INSTALLATION	7 wire harness 1m Length
OPERATING TEMPERATURE	-20°C to +60°C (connected to external power)  At < 0°C and > +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.
GPS ANTENNA	Internal
CELLULAR ANTENNA	Internal
3-AXIS ACCELEROMETER	3-Axis Accelerometer to detect movement, acceleration, high G-force events, and more.
DIAGNOSTIC LED	Diagnostic LED signifies operation status.
FLASH MEMORY	Store weeks of records if device is out of cellular coverage. Storage capacity for over 10 days of continuous 30-second logging.

## INTERFACES

DIGITAL INPUTS	2 x Digital Inputs with configurable pull-up/down 0-48V DC input range On/Off thresholds: Pull-up enabled: low at 0.8V, high at 1.0V Pull-down enabled: low at 2.0V, high at 2.4V
DIGITAL OUTPUTS	1 x Switched Ground Digital Output Easily wired up to switch external lights, relays, buzzers, etc. Can be used to immobilize a vehicle.
IGNITION	1 x dedicated ignition digital input 0-48V DC 5V on/off threshold
1-WIRE® OR IButton®	1-Wire® or "IButton®" can be used to read Driver ID tags. Readers available to suit multiple card formats.



## SMARTS

<b>AUTO-APN</b>	Auto-APN allows the device to analyze the SIM card and select the correct APN details from a list that is pre-loaded in the device's firmware.
<b>ACCIDENT &amp; ROLLOVER DETECTION</b>	Configure accident and rollover alerts triggered by extreme changes in velocity and orientation of vehicle or equipment. Second-by-second GPS data is saved on the device's flash memory, with a capacity of approximately 2 hours of data. In the event of an accident, a subset of the data (60 seconds before / 10 seconds after) is uploaded to the server automatically (if configured) or can be requested manually for a detailed reconstruction of the incident.
<b>DRIVER ID OPTIONS</b>	iButton® interface for Driver ID, access control, and logging.
<b>DRIVER SAFETY &amp; BEHAVIOR</b>	Monitor speeding, harsh acceleration, braking, cornering, idling, and more to improve safety and prevent unnecessary wear on vehicles.
<b>GEOFENCING</b>	Create custom geofences and alerts if an asset enters or leaves specific locations.
<b>GEOFENCE DOWNLOAD TO DEVICE</b>	Geofences can be downloaded directly to the device from Telematics Guru for enhanced location-based actions and alerts. Maximum of 20 Geofences with up to 30 points per geofence.
<b>IN-VEHICLE ALERTS</b>	Can be wired up to external buzzers or lights for in-vehicle alerts.
<b>LONE WORKER SAFETY</b>	Interface a variety of duress pendants to enable man-down alerts for lone worker safety monitoring.
<b>PREVENTATIVE MAINTENANCE</b>	Set reminders based on distance traveled and run hours to reduce maintenance and repair costs.
<b>REAL-TIME TRACKING</b>	Device remains continuously connected while on the move for real-time asset tracking.
<b>THEFT RECOVERY</b>	Switch to Recovery Mode in the case of theft or loss to activate real-time tracking at 30-second intervals for asset retrieval.
<b>REMOTE IMMOBILIZATION</b>	Digital outputs can be connected to a relay to enable remote immobilization of vehicles and equipment in the case of theft, abuse, or unauthorized usage.
<b>RUN HOUR MONITORING</b>	Calculate run hours and distance traveled (odometer) to understand and optimize asset utilization.
<b>SENSOR MONITORING</b>	Interface with a range of devices and switches for seatbelt detection, duress and panic buttons, lights, in-cab warning buzzers, and more.
<b>TAMPER ALERTS</b>	Instant alert if the device is removed from your asset or disconnected from its power source.

## DEVICE MANAGEMENT

<b>FLEXIBLE CONFIGURATION</b>	Configure device parameters such as heartbeat rate, movement and accelerometer settings, and more to fit any tracking application.
<b>OEM SERVER</b>	Manage, monitor, configure, debug, update, and restart devices remotely from our cloud-based device management system.

## INTEGRATION

<b>THIRD-PARTY INTEGRATION</b>	Webhook, TCP or HTTPS, Direct and Data Splitting Integration Options
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## SECURITY

<b>DATA SECURITY</b>	Military-level AES-256 Encryption from device to OEM Server to protect the integrity and confidentiality of telematics data.  Data forwarded to third-party systems is sent via HTTPS for end-to-end security.
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## WARRANTY

<b>MANUFACTURER'S WARRANTY</b>	One year manufacturer's warranty.
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## CERTIFICATIONS

Please contact us for a full list of compliance specifications and documentation for your region.	<b>4G</b> - FCC, ISED, ACMA (DoC), CE (Doc) <b>2G</b> - ICASA, CE (Doc)
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