

# DAKTECH



## G62

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

### OVERVIEW

Ultra-rugged, feature-rich vehicle, trailer, or heavy equipment tracking device with 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

DATASHEET

### 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

View more devices at [www.daktech.com.au/tracking](http://www.daktech.com.au/tracking)

## CONNECTIVITY

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

## LOCATION

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

## POWER

|                            |   |
|----------------------------|---|
| <b>INPUT VOLTAGE</b>       | 8-36V DC (max)  |
| <b>SELF-RESETTING FUSE</b> | 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. |
| <b>OPERATING CURRENT</b>   | ~25/50mA when moving<br>~150mA battery charging   |
| <b>SLEEP CURRENT</b>       | <1mA  |
| <b>BACK-UP BATTERY</b>     | 1100mAh LiPo internal backup battery pack   |

## MECHANICS/DESIGN

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

## INTERFACES

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



## SMARTS

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|--|--|
| <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 logbooking.  |
| <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.<br>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

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

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

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