# TG tracking

# G62 LoRaWAN®

## All 868, 902-928MHz LoRaWAN® regions supported

Robust and ultra-rugged LoRaWAN® vehicle and heavy equipment tracking device with inputs/outputs for fleet management, equipment monitoring

### GPS/GLONASS
High-precision GPS/GLONASS tracking device

### Ultra-Rugged
Weatherproof and ultra-rugged IP67 Housing

### Backup Battery
Internal Backup Battery in case of loss of power or tampering

### Inputs/Outputs
1 x Analog Inputs, 2 x Digital Inputs, 1 x Switched Ground Digital Output, 1 x Ignition Digital Input

### Run Hour Monitoring
On-Device Odometer Readings

# Connectivity

| LoRaWAN | Highly sensitive radio receiver is available in 868 or 902 - 928 MHz versions |
|---|---|
| LoRaWAN Regions | AU915<br>AS923-1<br>AS923-2<br>AS923-3<br>EU868<br>IN865<br>KR920<br>RU864<br>US915 |

# Location

| Module | uBlox EVA-M8 |
|---|---|
| Constellation | Concurrent GPS / GLONASS |
| Channels | 72 Channel High Sensitivy Receiver |
| Tracking Sensitivity | -167dBM industry-leading tracking performance |
| Low Noise Amplifier | GPS signals are boosted by a unique low-noise amplifier (LNA) allowing operation where other units fail |
| LoRaWAN Gateway Geolocation Fallback | LoRaWAN gateway geolocation fallback when there is no GNSS |

# 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<br>~150mA battery charging |
| Sleep Current | <1mA |
| Backup Battery | 1100mAh LiPo internal backup battery pack |

# Mechanics / Design

| Dimensions | 125 x 80 x 25 mm (4.92 x 3.15 x 0.98") |
|---|---|
| Weight | 170 g (6.00 oz) |
| 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<br>1m Length |

# Mechanics / Design  *(continued)*

| | |
|---|---|
| Operating Temperature | -20°C to +60° |
| GPS Antenna | Internal |
| 3-Axis Accelerometer | 3-Axis Accelerometer to detect movement |
| Diagnostic LED | Diagnostic LED signifies operation status |

# Interfaces

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|---|---|
| Analog Inputs | 1 x 0-30V Analog Input, <br> Auto Ranging, 12-bit ADC <br> 0-5V range: 1.22mV precision <br> 0-30V range: 7.32mV precision |
| Digital Inputs | 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 |
| Digital Outputs | 1 x Switched Ground digital output <br> Can be toggled via downlink |
| Ignition | 1 x dedicated ignition digital input 0-48V DC <br> 5V on/off threshold |

# Smarts

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| Geofence Alerts | The server can use device location to create geofences and alerts if an asset enters or leaves designated locations |
| Run Hour Monitoring | Calculate run hours and distance traveled (odometer) to understand and optimize asset utilization |

# Device Management

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| Flexible Configuration | Configure device parameters such as position update rate, movement and accelerometer settings, and more to fit any tracking application |
| Configuration App | Manage device firmware updates and parameters via a USB configuration cable and app. Some parameters can be changed via downlink. |

# Integration

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| Third-Party Integration | Easy integration with comprehensive documentation and a flexible and open payload format |

# Security

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|---|---|
| Data Security | LoRaWAN® networks use AES-128 Encryption so your data is protected |

# Warranty

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| Manufacturer's Warranty | One year manufacturer's warranty |

# Certifications

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|---|---|
| Please contact us for a full list of compliance specifications and documentation for your region. | CE (Doc) |