

SOLLATEK DATA SHEET NO:

10910486

SOLLATEK GGR

MULTI-GNSS RECEIVER MODULE
FOR GEOLACTION ASSET TRACKING

Description

GGR is a Multi-GNSS receiver module which when connected to a Sollatek host device such as FFA and GMC-0 provides remote asset tracking.

GGR receives multiple satellite signals from different navigation systems such as GPS, GLONASS and Galileo. This improves position accuracy, success rate and signal robustness.

Once the GGR has calculated its location from the satellite signals it sends this to the host device. Via the GSM module in the host device the location is then transmitted to the online portal where users can track the location of the GGR and therefore, customer's asset.

The GGR can be easily retrofitted to a Sollatek host device via a connection cable. The GGR is powered from the host device.

Features

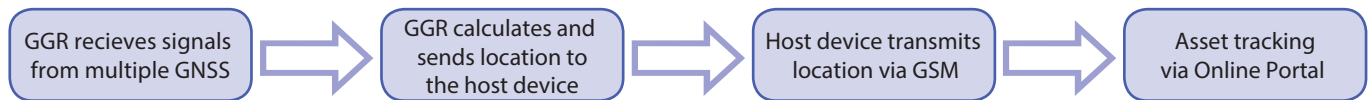
- Multi-GNSS receiver for GPS, GLONASS and Galileo
- Highly Sensitive Receiver
- Asset Tracking via the online portal
- Online portal provides details of location, device information and power status, as well as other performance information recorded from the Host
- Connects to Sollatek FFA (EMD) and GMC-0 (GSM Modem)
- Powered from Host Device
- Ultra low power consumption - sleep mode to minimise battery usage
- Easily retrofitted to a Sollatek Host Device via a connecting cable
- A secondary device such as a display can be connected to expand user interactions with the controller via the second micro USB port
- LED status indicator

Technical Specification

GNSS	Multi-GNSS engine for GPSS, GLONASS, Galileo and QZSS 99 acquisition channels, 33 tracking channels GPS L1 Band Receiver: 1575.42MHz; GLONASS L1 Band Receiver: 1601.71MHz Ultra high sensitivity: -165 dBm @ Tracking mode; -148dBm @ Acquisition mode Time To First Fix (TTFF) @ -130dBm: Cold start <15s; ; Warm start <5s; Hot start <1s Horizontal position accuracy of less than 2.5m Circular Error probability (CEP) @ -130dBm Great anti-jamming (Multi-tone active interface canceler) Support Satellite based augmentation system (SBAS) including: WAAS, EGNOS, MSAS, GAGAN Embedded patch antenna and low noise amplifier
Connectors	GGR to host device using serial data via Micro USB connector GGR to Secondary device using serial data via second Micro USB connector
Power	Power from Host device Ultra-low power design
Mechanical	Mounting: 2x screws or double-sided adhesive pad (provided) Size: 52.0 x 34.0 x 22.3 mm Weight: 25 g Operating temperature: -40°C to 65°C IP rating: IP52*

* Not tested, subject to mounting orientation

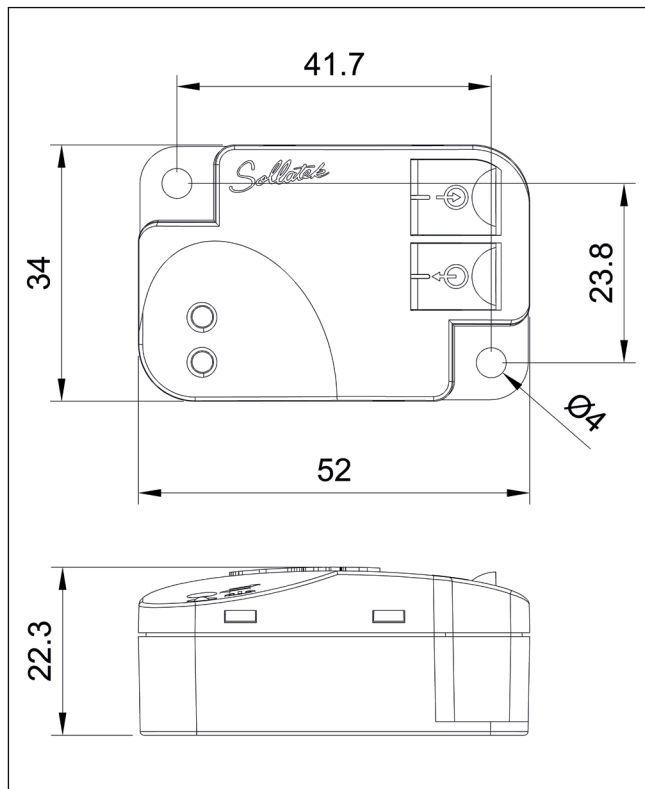
Typical application



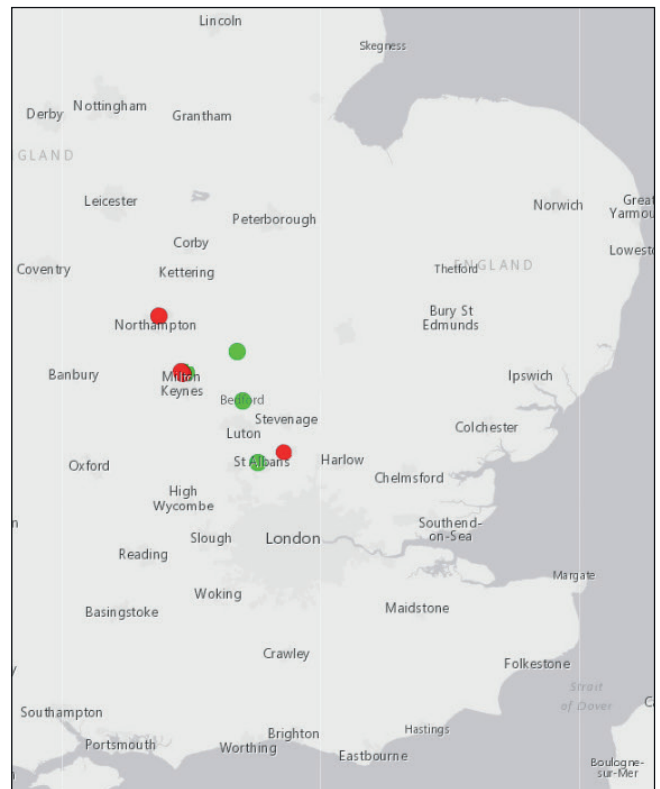
Application Diagram



Dimensions



Online Portal - Asset Location



Stock No	Description
9530GR10	GGR Multi-GNSS Receiver Module
8M293477	Cable 2x4 Way to uUSB 2M (GGR to GMC-0)
8M291018	Cable 2x4 Way FFA to uUSB 0.5m (GGR to FFA)
8M291019	Cable 2x4 Way FFA to uUSB 2m (GGR to FFA)

For more information on the Sollatek product range visit www.sollatek.com

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Intelligent Controls