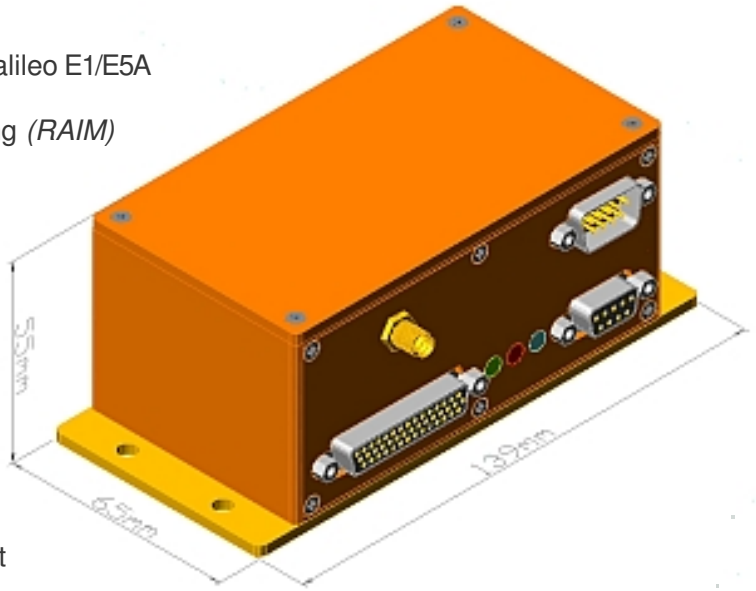
# GLE/RGM/GXT/001

## Miniature & Rugged Multi-GNSS Constellation Receiver

### Main Features

- Miniature and Rugged construction
- Designed to meet Mil-Std specs
- GPS L1/L2/L2C/L5 + GLONASS L1/L2 + Galileo E1/E5A
- WASS/EGNOS *(SBAS)*
- Receiver Autonomous Integrity Monitoring *(RAIM)*
- Advanced Multipath Reduction
- Update rate up to 100Hz
- RTK rate up to 100Hz
- Heading determination
- Code Differential Rover
- Code Differential Base
- Two high speed RS232 ports
- One RS232 telemetry port
- One or more ARINC429 port
- One high speed RS422 port
- One USB port
- CAN interface port
- IRIG-B 1kHz modulated time code output
- 1 PPS output
- Event Marker
- Internal storage memory




### Overview

GLE/RGM/GXT/001 is a miniature GNSS receiver designed for on board instrumentation and testing applications.

It is based on well proven and extremely powerful GNSS-receiver boards family with a total of 216 receiving channels.

It features single or triple frequency GPS, Galileo, GLONASS and SBAS, in a very compact, EMI shielded, water resistant and rugged aluminum milled enclosure.

It can operate in an extended temperature range, under severe mechanical and environmental conditions and it is equipped of a MIL-STD compliant power supply with a wide DC input voltage range.

Control and data communication are supported by a variety of digital interfaces, as RS232, RS422, USB and CAN; main functions can be controlled also by remote via contact interface.

In addition to standard interfaces, GNSS data can be transmitted accordingly to ARINC429 protocol.

An ASCII NMEA-0183 to binary format converter is incorporated to generate a simplified data protocol, easy to be acquired and transmitted over a PCM data stream.

On request, specific data protocols for INS aiding or other purposes can be implemented on RS232/422 or ARINC429 outputs.

For more information about this new product contact GreenLake Engineering: info@greenlake-eng.com



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