

# GLE/RGM-SD

## Ruggedized Miniature GNSS receiver with SD Data Recorder

### Available Features (\*)

- Compact and rugged construction
- Internal data recorder on removable SD card
- GPS L1/L2/L2C/L5 + GLONASS L1/L2 + Galileo E1/ESA + BeiDou + QZSS + IRNSS + WASS/EGNOS/GAGAN (SBAS)
- Receiver Autonomous Integrity Monitoring (RAIM)
- Spoofing Detection
- Advanced Multi-Path Reduction
- Update rate up to 100 Hz
- RTK rate up to 100 Hz
- Heading determination
- Code Differential Rover
- Code Differential Base
- High speed RS 232 / RS 422 bi-directional ports
- RS 232 telemetry data port
- USB 2.0 setup & communication port
- IRIG-B 1kHz modulated time code output
- 1 PPS output synchronized to GPS, GLONASS or UTC
- GLONASS .2mm Dynamic Calibration
- Spectrum Data Output
- Most of the optional functions can be upgraded in the field

(\*) Available features are depending on specific model and by selected options.

### Benefits

- Tracking of multiple constellations provides better availability of GNSS signals.
- Tracking of L1/L2/L2C and L5 signals provides better accuracy.
- Multiple I/O interfaces provide great flexibility

### Applications

On-board instrumentation for testing in harsh environments: armoured and heavy-duty military and civil vehicles testing, flight-testing and certification of manned and unmanned aerial platforms, ship and vessel trials ...

### Overview

GLE/RGM-SD is a flexible, miniature and rugged GNSS receiver designed for on-board instrumentation and testing. It is based on well-proven, extremely powerful GNSS-receiver boards family with up to 864 universal receiving channels. Two basic models are available: GLE/RGM-SD-2T and GLE/RGM-SD-3N.

In a small, EMI shielded and rugged enclosure, it features multiple frequency: GPS, Galileo, GLONASS, BeiDou, QZSS, IRNSS and SBAS. It operates in an extended temperature

range, in severe mechanical and environmental conditions and is equipped of a wide DC input voltage range power supply, designed to meet MIL-STD specs.

Control and data communication are supported by different interfaces: RS 232, RS 422 and USB 2.0; main functions may be controlled via a remote contact port.

It incorporates an ASCII NMEA-0183 to binary format converter that generates a simplified RS 232 protocol, easy to be acquired and transmitted over a

Telemetry/PCM stream.

Besides, to the possibility of an internal data storage capability on a non-removable flash memory, it includes a data recorder, with SD memory slot accessible from the front panel. Raw data are stored in efficient binary JPS format that can be directly processed or converted to RINEX by means of a supplied software tool. An optional software package is available for data processing and RTK correction.



*Due to continuous developments, specifications are subject to change without prior notice. This product is not intended for applications whose its failure to perform can be expected to cause damages to properties and/or persons and/or injury to human life.*

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