

GLE/RGU-3S

Ruggedized Multi Constellation GNSS Receiver

Available Features (*)

- Compact and rugged construction
- Designed to meet MIL-STD specifications
- GPS L1/L2/L2C/L5 + GLONASS L1/L2 + Galileo E1/E5A + BeiDou + QZSS + IRNSS + WASS/EGNOS/GAGAN (SBAS)
- Receiver Autonomous Integrity Monitoring (RAIM)
- Advanced Multi-path Reduction
- In-band interference rejection
- Update rate up to 200Hz
- RTK rate up to 200Hz
- Heading determination
- Code Differential Rover
- Code Differential Base
- External frequency I/O
- High speed RS 232 / RS 422 bi-directional ports
- RS 232 telemetry data port
- Ethernet, CAN bus interfaces and/or USB 2.0
- IRIG-B 1kHz modulated time code output
- PPS output synchronized to GPS, GLONASS or UTC
- Event Marker input
- CF internal data recorder for CompactFlash cards
- GLONASS .2mm Dynamic Calibration
- Spectrum Data Output
- PTP IEEE 1588: Precision Clock Synchronization Protocol
- Upgradeability in the field for most of the optional functions

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



Benefits

- Tracking 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

Onboard 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/RGU-3S is a flexible, customizable, compact and rugged GNSS receiver designed for on board instrumentation and testing. It is based on well-proven, extremely powerful GNSS-receiver series with 874 universal receiving channels. In a small, EMI shielded and rugged enclosure, it features single or multiple frequency: GPS, Galileo, GLONASS, BeiDou, QZSS, IRNSS and SBAS. It works in an extended temperature range, under severe mechanical and environmental conditions and is equipped with a wide DC voltage

range power supply, designed to meet MIL-STD specs.

Control and data communication are supported by a variety of interfaces: RS 232, RS 422, Ethernet, USB 2.0 and/or CAN bus. Main functions may be controlled by front panel or by 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 a large internal data storage capacity, it

includes a CompactFlash data recorder, with a SD 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. As an option, can be supplied, a specific software package for data processing, including RTK correction. GLE/RGU-3S receiver units have been successfully used and are currently used for flight-testing and certification, on-board to various platforms, including Helicopters, Jet, and Turbo-fan Aircrafts.

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