

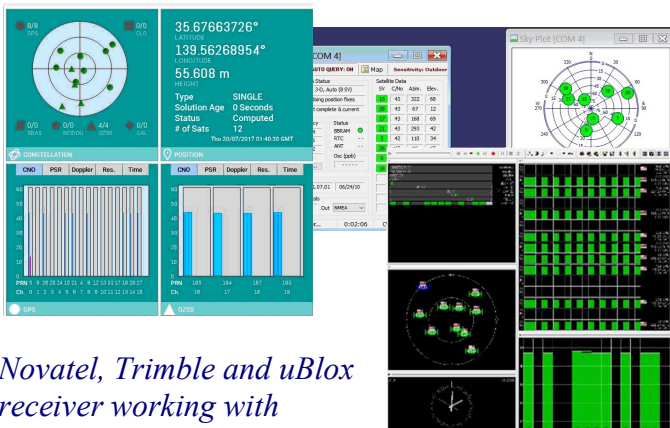


### Features

- Real-time simulation of GPS L1, Galileo E1, BeiDou B1, GLONASS G1 and IRNSS L5, up to two frequencies at a time, selectable from GUI.
- Comprehensive simulation models include atmosphere, multipath etc.(see ReGen datasheet).
- Record and playback incl. wideband signals.
- Signal analysis based on ionospheric scintillation monitor.
- Simulated and recorded signals can be stored in digitized format, analysed by a MATLAB software receiver and played back as RF at any time.

### Options

ANSI C API allows the modification of existing models or the implementation of custom models for signal simulation.



Novatel, Trimble and uBlox receiver working with Simceiver. Positioning accuracy usually ~ 1m RMS

### Overview

The Simceiver™ is a GNSS simulator for advanced R&D, equipment testing and education. It can also function as a recording, playback and signal analysis instrument.

#### Components:

- 1) Simceiver™ hardware device,
- 2) ReGen™ control software for real-time simulation,
- 3) Streamer software for recording and playback,
- 4) ARAMIS™ software receiver for signal analysis.

The Simceiver™ is a result of seven years of collaboration with the Japan Aerospace Exploration Agency (JAXA).

### Specification

|                         |                            |
|-------------------------|----------------------------|
| <b>Power control</b>    |                            |
| Real-time               | 20 dB                      |
| Resolution              | 0.5 dB                     |
| <b>Signal quality</b>   |                            |
| In-band spectral purity | < -30 dBc                  |
| Harmonics               | < -35 dBc                  |
| Signal bandwidth        | 23.4 MHz                   |
| <b>Connectors</b>       |                            |
| RF IN, RF OUT           | SMA female,                |
| USB-2                   | Bi-directional to Host PC  |
| Power                   | 5 VDC, < 3 W               |
| <b>Accuracy</b>         |                            |
| Code phase              | Up to ± 1 cm RMS           |
| Carrier phase           | Up to ± 5 mm RMS           |
| Time base               | OCXO option                |
| Stability               | ±5 ppb over 0° C to +50° C |
| <b>Environmental</b>    |                            |
| Operating temperature   | +10 ~ 40 °C                |
| Operating humidity      |                            |
| Dimensions              | 300×200×70                 |
| Weight w/o control PC   | ~ 2 kg                     |