

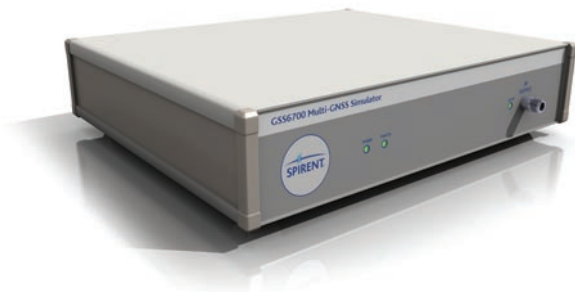


GSS6700

GNSS SIMULATOR

Flexible Multi-GNSS Constellation Simulator Systems

GSS6700 Series



The GSS6700 Multi-GNSS Simulator from Spirent offers coherent GPS/SBAS/QZSS, GLONASS and Galileo L1 signals from a single chassis. 12 channels of each enabled constellation provide ample signals for a wide range of development and integration tasks.

Spirent's GSS6700 is supported by a selection of software applications to suit your needs.

The GSS6700 Multi-GNSS Constellation Simulator from Spirent provides an easy-to-use but powerful solution for GNSS testing which can grow with your evolving needs.

- GPS/SBAS/QZSS, GLONASS and Galileo supported in a single chassis
- 12 independent channels of each constellation
- Field upgrade minimises downtime as your needs grow
- Portable scenarios facilitate collaboration
- Class leading accuracy, fidelity and reliability
- Save and compare DUT data
- Receiver antenna pattern modelling
- Import motion from logged NMEA
- Selection of scenario generation and simulation control software available
 - SimREPLAY™. Interactive run time control with assistance data extract
 - SimREPLAYplus™. Import remote trajectory, edit time, date and position
 - SimGEN™. Comprehensive constellation, propagation and vehicle modelling with flexible data capture

The GSS6700 supports GPS/SBAS/QZSS, GLONASS and Galileo L1 signals. Users working in the development or integration of Multi-GNSS products are able to verify product performance under a range of real life conditions.



The GSS6700 offers exceptional repeatability, wide dynamic capability both in Doppler and power level, low phase noise and sufficient channels to support all-in-view and multipath environments.

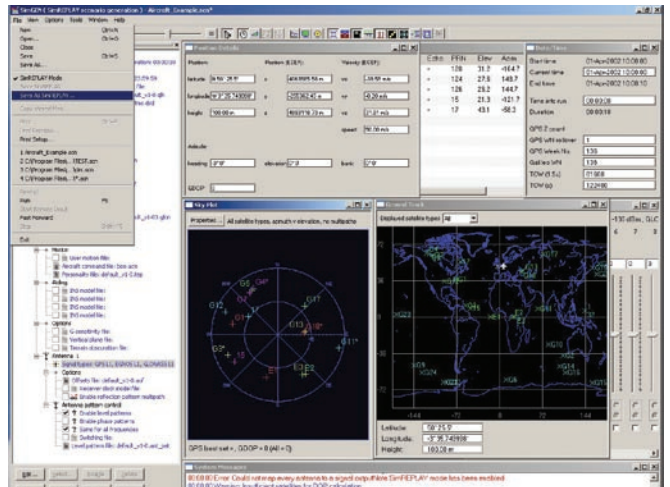
A full range of hardware integration signals are provided including 1PPS in / out, 10MHz in / out and hardware trigger.

The GSS6700 Multi-GNSS Simulator is supported by a range of scenario generation and simulator control software packages including Spirent's feature-rich SimGEN™. Each software package has a range of capabilities from the all-inclusive SimGEN™ to packages more suited to production or integration / verification applications.

SimGEN™ offers a complete and flexible scenario generation capability including control of the constellations, propagation, terrain obscuration, antenna patterns, multipath, vehicle trajectory and a range of error models.

SimREPLAY™ supports operation of the simulator replaying pre-defined scenario and is ideal for repetitive comparative measurements. Scenarios for use with SimREPLAY™ can be obtained from a number of sources including an online scenario generation tool available at no additional charge to customers with a warranty or support contract.

SimREPLAYplus™ enables the user to define vehicle motion remotely as well as adding the ability to edit the time, date and position. SimREPLAYplus™ allows users to generate scenarios locally with features comparable to the online tool available to supported SimREPLAY™ users.



SimREPLAYplus™ screenshot

Output Frequency

- GPS L1 C/A 1575.42MHz
- GLONASS L1 C/A (Ch0) 1602MHz
- Galileo E1 OS CBOC 1575.42MHz
- QZSS L1 C/A 1575.42 MHz

Signal Accuracy

- Pseudorange ±0.002m
- Pseudorange rate ±0.001m/s
- Interchannel bias zero

Signal Quality

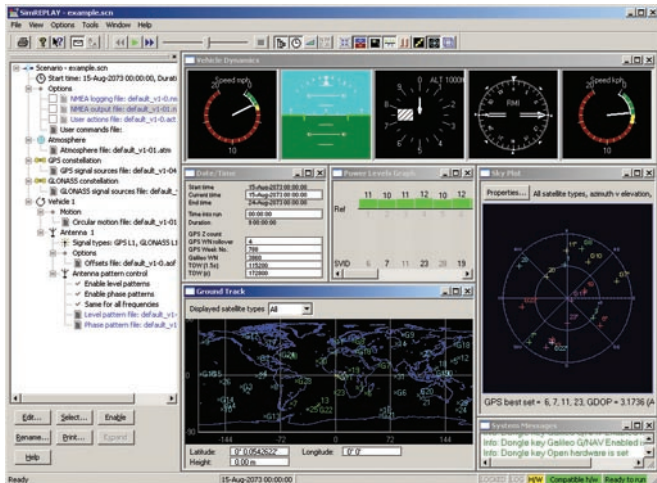
- Spurious (Max) -30dBc
- Harmonics (Max) -35dBc
- Phase Noise (Max) 0.02 rad RMS
- Frequency Stability ±5 x 10-10

Signal Level

- GPS/SBAS/QZSS nominal -130dBm
- GLONASS nominal -131dBm
- Galileo nominal -128.5dBm
- Level control range +15 / -20 dB
- Level control resolution 0.1dB
- Level control accuracy ±0.5dB

Physical and Electrical (Signal Generator)

- Size (mm) 449x383x89 (WxDxH)
- Weight 6.5Kg
- Power 110/240 V AC 50/60Hz

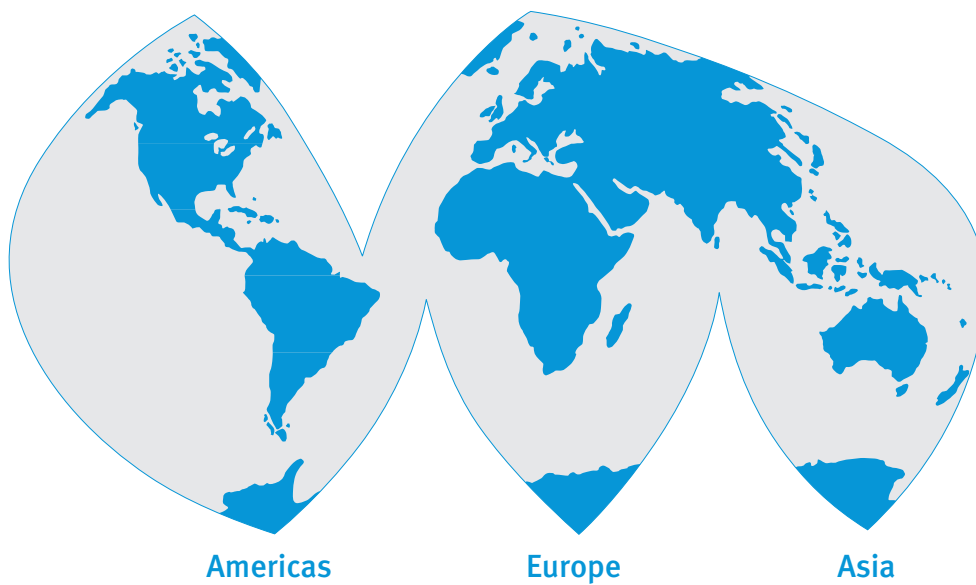


SimGEN™ allows scenario to be saved for use by SimREPLAY™ and SimREPLAYplus™.

Documentation and Reference Table

Related Product, Option or System Extension	Brochure Title	Data-sheet / Specification Ref.
GSS6700 with SimGEN™	Datasheet	MS3067
GSS6700 with SimREPLAY™	Datasheet	MS3066
GSS6700 with SimREPLAYplus™	Datasheet	MS3068
SimAUTO	Brochure	MCD00161
	Datasheet	MS3023
GSS7765	Brochure	MCD00155
	Datasheet	MS3055
SimQZSS	Datasheet	MS3062
SimGEN™	Datasheet	MS3008

Global coverage



SALES AND INFORMATION

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