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SPIRENT GSS6700
GNSS SIMULATOR

Flexible Multi-GNSS Constellation Simulator Systems





GSS6700 SERIES

The GSS6700 Multi-GNSS Simulator from Spirent offers simultaneous coherent GPS/SBAS, GLONASS, BeiDou and Galileo L1 signals from a single test scenario. 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.

Key Features

- GPS/SBAS, GLONASS, BeiDou and Galileo supported
- 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, GLONASS, BeiDou 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.

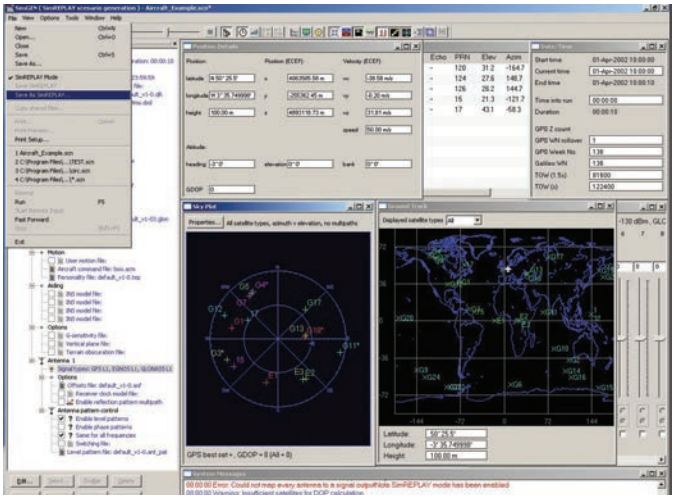
A full range of hardware integration signals are provided including 1PPS in / out, 10MHz in / out and hardware trigger.

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.

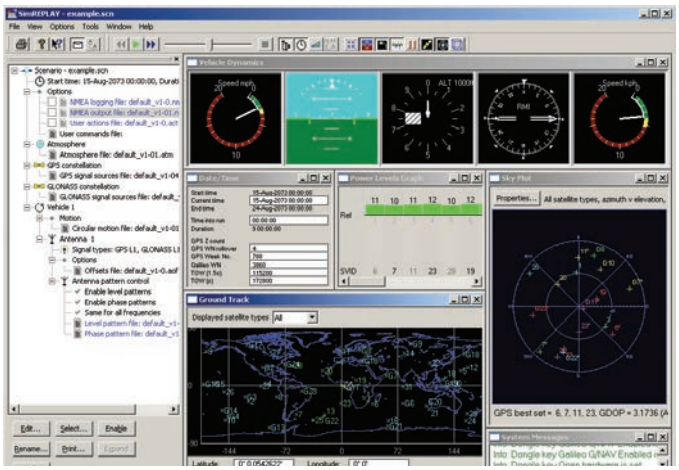
SimGEN™ offers a complete and flexible scenario generation capability including control of the constellations, propagation, terrain obscuration, antenna patterns, multipath, vehicle trajectory and a range of error models.

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.

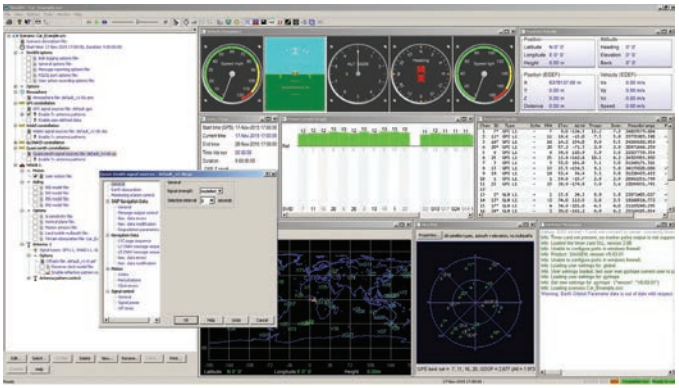
SimREPLAY*plus* enables the user to define vehicle motion remotely as well as adding the ability to edit the time, date and position. SimREPLAY*plus* allows users to generate scenarios locally with features comparable to the online tool available to supported SimREPLAY users.



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



SimREPLAYplus screenshot



QZSS file editor

SPECIFICATION

Output Frequency

GPS L1 C/A	1575.42MHz
GLONASS L1 C/A (Ch0)	1602MHz
BeiDou-2 B1	1561.098MHz
Galileo E1 OS CBOC	1575.42MHz

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 nominal	-130dBm
GLONASS nominal	-131dBm
BeiDou nominal	- 130dBm
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



Global coverage



Americas Europe Asia

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 SimREPLAY*plus*	Datasheet	MS3068
SimAUTO	Brochure	MCD00114
	Datasheet	MS3023
GSS7765	Brochure	MCD00121
	Datasheet	MS3055
SimGEN™	Datasheet	MS3008

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