

Spirent GSS6560 Specs Provided By WWW.AAATesters.com

Multi-Channel Fully Flexible GPS/SBAS Simulation System **Spirent GSS6560**

The GSS6560 12 channel GPS/SBAS simulation system from Spirent offers full user control of scenario creation and data analysis, making it ideally suited to use in a development/verification environment.

Key Features

- 12 independent channels GPS L1 C/A code
- Complete scenario generation capability using Spirent's SimGEN for Windows® software
- Class leading accuracy, fidelity and reliability
- All digital architecture
- High dynamic capabilities
- Full user control of GPS constellation, errors and atmospheric effects
- Control of vehicle motion, antenna modelling and terrain modelling
- Interactive run time control
- Comprehensive data capture, manipulation and presentation capabilities
- Up to 4 RF outputs to support differential and attitude testing
- Supports Space Based Augmentation System (SBAS) signal (WAAS/EGNOS/MSAS) as standard

The GSS6560 Multi-Channel GPS/SBAS signal generator is the solution of choice for developers and integrators wishing to reduce development and verification costs and improve product resilience and capability.

A full range of hardware integration signals are provided including 1PPS in and out, 10MHz in and out and hardware trigger. The generator also features a low-loss external RF Interference input. Simulation data is available for storage and subsequent processing. Graphing tools are included.

The GSS6560 is supplied pre-installed with Spirent's SimGEN for Windows® software suite. SimGEN offers complete flexibility and scenario definition capability in an intuitive Windows-based environment, including:

- satellite constellation definition and modelling
- atmospheric effects modelling (lono/Tropo)
- vehicle motion modelling for aircraft, cars and spacecraft
- vehicle motion trajectories from a user-supplied file or in real time via ethernet, including full remote control for 100Hz hardware-in-the-loop applications
- antenna and multipath modelling
- wide range of error models
- terrain obscuration modelling

Please contact us for further information. We will be pleased to discuss your specific requirements and arrange a demonstration.



Multi-Channel Fully Flexible GPS/SBAS Simulation System Spirent GSS6560

SPECIFICATION

Output Frequency

L1 @ 1575.42MHz

Signal Dynamics

Max Velocity ± 15000m/s Max Acceleration $\pm 450 \text{m/s}^{2}$ Max Jerk $\pm 500 \text{m/s}^{3}$

Signal Accuracy

(RMS max over 1 minute)

Pseudorange uncertainty ±2mm Pseudorange rate uncertainty ±1mm/s Interchannel bias Zero

Signal Quality

<-30dBc Spurious (Max) Harmonics (Max) <-35dBc ■ Phase Noise (Max) < 0.02 Rad RMS Frequency Stability <±5 x 10-10 over 1 day

Signal Level

-130 dBm nominal L1 C/A Code

Signal Level Control

Range + 15/-20dB Resolution 0.1dB

Accuracy ±1.0dB RSS nominal uncertainty

Signal Generator Unit

Generator Channels 12

GPS C/A with data@50bps Channel type or

(independent)

SBAS with data @500sps ■ Interference Input Type 'N', coupling loss, 1dB

89 x 449 x 386mm Size (HxWxD)

> (3.5 x 17.75 x 15.25inch) 480mm (19inch) desktop/rack

mount case

5.5kg (12lb)

Power 100-250V ac, 48-62Hz

Computer Specification

Weight

Microsoft® Windows® Operating System

Professional

115v/230V,450V,50/60Hz Power Optional IEEE-488 PCI card and/or PCMCIA card (for alternative

hardware-in-the-loop).

Product Specifications (MS3003/MS3008) are available on request

Performance figures and data in this document are typical and must be specifically confirmed in writing by Spirent Communications (SW) Ltd. before they become applicable to any particular order or contract.

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For current product data, visit the Spirent websites at www.spirentcom.com or www.spirentfederal.com



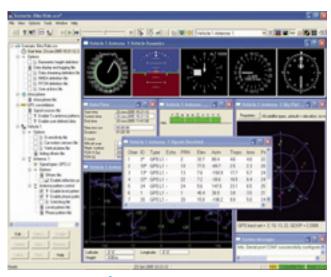
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SimGEN for Windows® User Interface







