SPIRENT GSS7735

MULTI-CHANNEL GPS L1/L2 PRODUCTION TEST SIMULATION

The Spirent GSS7735 is designed specifically for testing dual-frequency GPS equipment and sensors in manufacturing environments. The GSS7735 is a self contained unit and does not require a separate PC controller.

Key Features

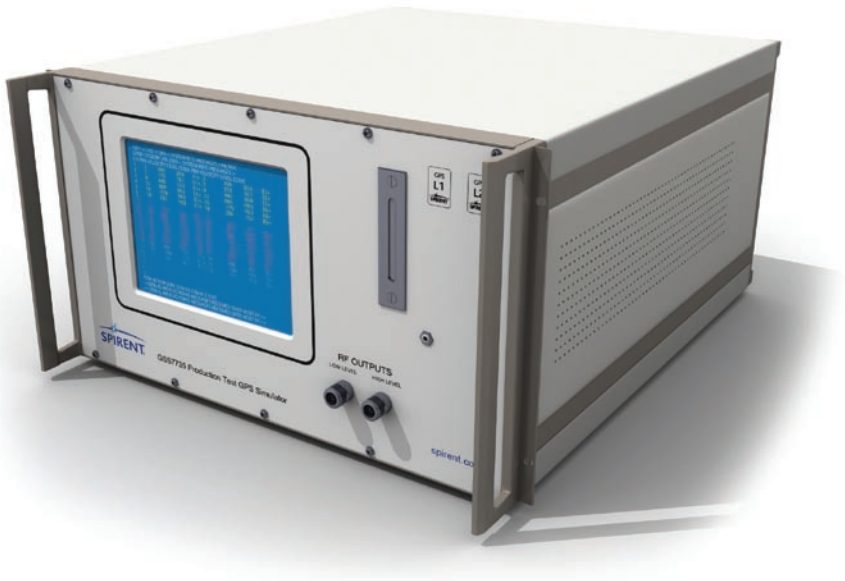
- 4 channel simulation at GPS L1 and L2
  - GPS L1 supports C/A and P Code
  - GPS L2 supports P Code
- Embedded controller
- User-defined variables
  - Date/time
  - Position (fixed)
  - Duration
  - Satellite power levels
- Nominal and high (+50dB) RF power levels
- Simple utility provided for annual calibration
- Rack mountable

The GSS7735 is a highly accurate, stable generator capable of exceptional fidelity and resolution.

The GSS7735 signal generator is controlled via an embedded controller running a flexible control package with interface via the touch sensitive screen or external keyboard (supplied). This package includes easy scenario definition for a single static position.

The 4 channel GSS7735 provides a complete simulated RF environment for production testing GPS receivers and/or sensors with the ability to create a 3-dimensional position solution.

This means that users can test not only sensitivity but also parameters such as time-to-fix and positioning accuracy.
The GSS7735 may be operated remotely via Spirent's SimREMOTE™ capability allowing control over scenario selection, start, stop and signal power levels via Ethernet TCP/IP. Remote operation over IEEE-488 is also available.



Multi-channel GPS L1/L2 Production Test Simulator:
Spirent GSS7735 shown with optional removable drive

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MULTI-CHANNEL GPS L1/L2 PRODUCTION TEST SIMULATOR

SPECIFICATION

Output Frequency

L1	1575.42MHz
L2	1227.60MHz

Signal Dynamics

Doppler range	5,000m/s

Signal Accuracy

(RMS max over 1 minute)

Pseudorange	±10cm (RMS)
Pseudorange rate	±1cm/s (RMS)
Interchannel bias	zero

Signal Quality

Spurious (Max)	- 30dBc
Harmonics (Max)	- 40dBc
Phase Noise (Max) (SSB)	0.02 rad RMS (1Hz-10kHz offset)
Frequency Stability (after 24 hour warm-up)	±5 x 10^{-10} per day

Signal Level

(Nominal, as appropriate)

GPS L1	-133dBm
GPS L2	-136dBm

Signal Level

(Nominal, as appropriate)

Range	+ 20/-20dB
Resolution	0.1dB
Accuracy	±0.7dB RSS

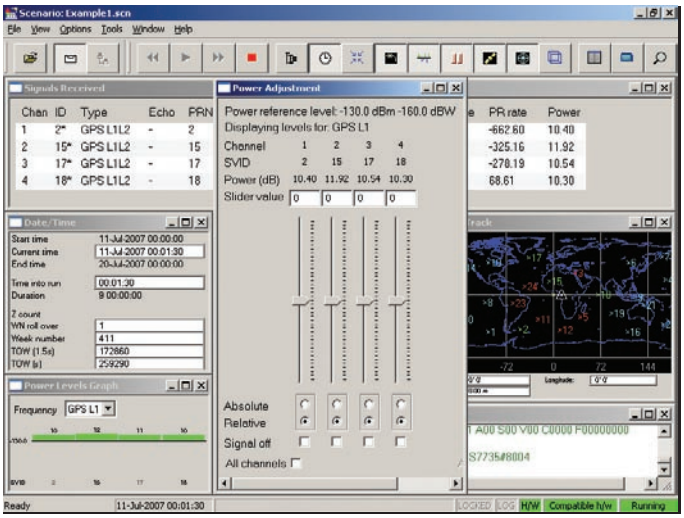
Signal Level Control

Generator Channels	4 L1 + 4 L2
Size (HxWxD)	265 x 450 x 530mm 10.5” x 17.75” x 20.9”
Weight	‹ 30kg (66lb.)
Power	110 – 240V, 50 – 60Hz

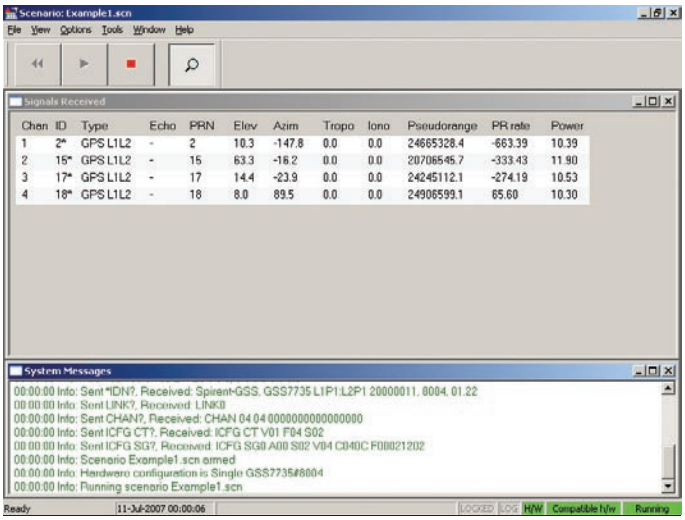
Product Specification (MS3046) is available on request
Performance figures and data in this document are typical and must be specifically confirmed in writing by Spirent Communications plc. before they become applicable to any particular order or contract.

The publication of information in this document does not imply freedom from patent or other rights of Spirent Communications plc. or others.

For current product data, visit the Spirent websites at www.spirent.com/positioning or www.spirentfederal.com



Screen shot showing power sliders



Simplified layout for touch screen

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