

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.

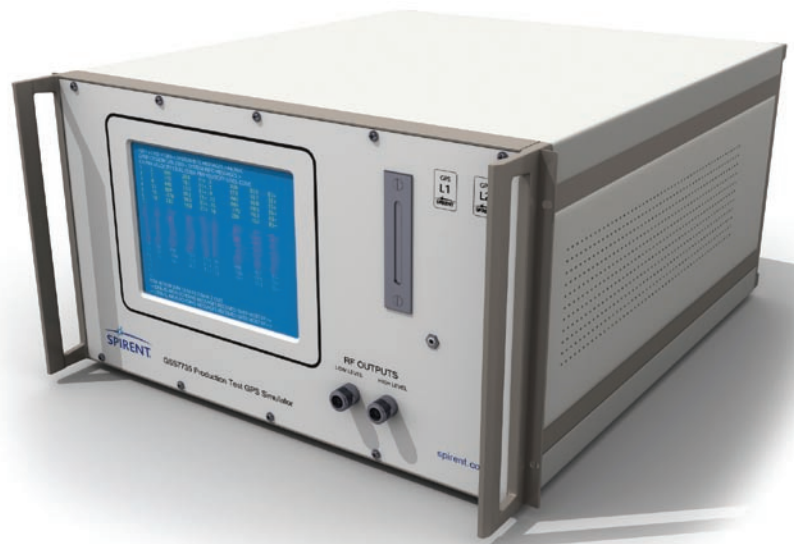
The GSS7735 signal generator is controlled via an embedded controller running a flexible control package with interface via the touch sensitive screen or external keyboard (supplied). This package includes easy scenario definition for a single static position.

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 ±5 x 10⁻¹⁰ per day (after 24 hour warm-up)

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

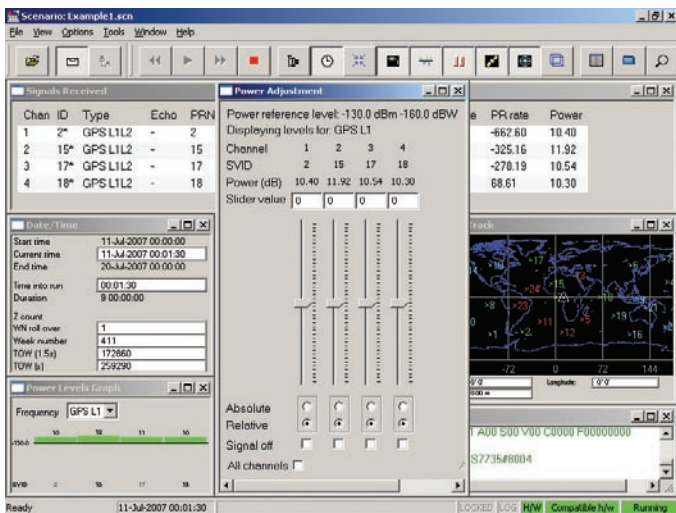
- Generator Channels 4 L1 + 4 L2
- Size (HxWxD) 265 x 450 x 530mm
10.5" x 17.75" x 20.9"
- Weight < 30kg (66lb.)
- Power 110 – 240V, 50 – 60Hz

Product Specification (MS3046) is available on request

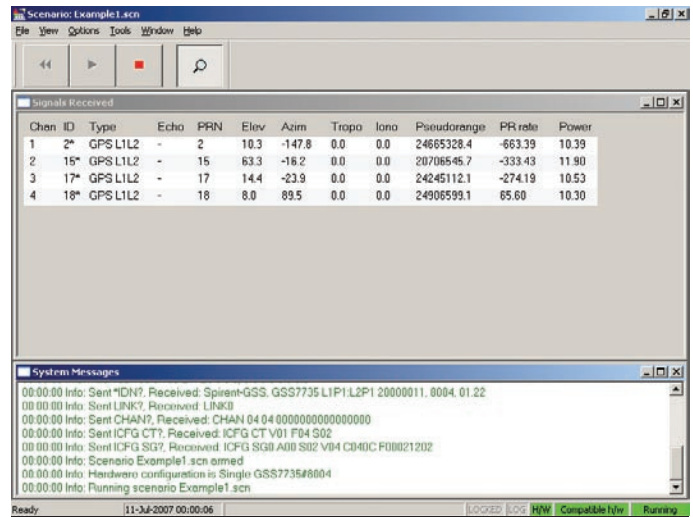
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For current product data, visit the Spirent websites at www.spirent.com/positioning or www.spirentfederal.com



Screen shot showing power sliders



Simplified layout for touch screen

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