VIAVI
GPSG-1000
GPS/Galileo Portable Positional Simulator

An economical simulator with high-end test capability, ideal for validating the performance of GPS enabled devices.

The VIAVI GPSG-1000 is a software upgradable, single carrier, multi-channel simulator. This versatile, time-saving test set is designed for GPS/Galileo receivers, including WAAS/EGNOS SBAS (satellite based augmentation systems) simulation.

The GPSG-1000 provides 3D positional simulation and allows any combination of visible SV’s to be selected. One or two channels may be allocated to SBAS simulation.

Features
- GPS signals simulated: L1, L1C*, L2C*, L5*
- Galileo signals simulated: E1, E5**, E5a**, E5b**
- Static and dynamic simulations
- NMEA-0183 File Record and Playback functionality
- 12 channel configuration (RAIM supported)
- Programmable space vehicle (SV) parametrics and health
- User or built-in GPS receiver referenced time and date
- Remote control interface via Ethernet

*Some receivers require synchronized L1 transmissions.
**Some receivers require synchronized E1 transmissions.

Benefits
- Simultaneous GPS/Galileo simulation
- Software/firmware upgradeable
- PVT (position, velocity, time) data available via RS-232

Applications
- General testing of civil GPS and Galileo receivers
- Testing of non-encrypted military GPS receivers
- Positive Train Control
- Asset tracking and telematics
- TAWS / WAAS / GBAS / LPV / ADS-B
Ordering Information

Versions and Options

<table>
<thead>
<tr>
<th>Order Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>87339</td>
<td>GPSG-1000 12 Satellite Simulator</td>
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<tr>
<td></td>
<td>NSN: 6625-01-616-2712</td>
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<tr>
<td>140607*</td>
<td>GPSGOPT3 ADS-B Integrity Test Option</td>
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* Includes cables and accessories

Standard Accessories

- 88493 Transit case (qty 1)
- 67374 Power supply
- 87636 Antenna coupler
- 90113 RX antenna
- 90114 Cable, coax. 50 ft.
- 62302 Power cord (U.S.)
- 64020 Power cord (European)
- 88753 Coupler shot bag
- 88037 Operation Manual (CD)
- 88038 Getting Started Manual (paper)

Optional Accessories

- 87040 External battery charger
- 86196 Spare battery pack
- 90106 Kit, antenna coupler placement pole, 8 ft.
- 91136 Kit, CPLR dual GPS antenna system
- 91137 Kit, CPLR triple GPS antenna system
- 113108 Kit, GPS receiver termination, 190 Ohms
- 89023 Maintenance Manual (CD)

Extended Warranty (2 year standard)

- 89768 36 months with scheduled calibration
- 89769 60 months with scheduled calibration

Physical Characteristics

<table>
<thead>
<tr>
<th>Size: Test set only</th>
<th>10.6”H x 13.9”W x 3.4”D</th>
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<tr>
<td>Weight:</td>
<td>15.5 lbs., 7.03 kg (test set only)</td>
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<td>48 lbs., 21.7 kg (shipping weight)</td>
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Environmental

- Operating Temp. -20° to 55°C (-4° to 131°F)
- Storage Temp. -30°C to 71°C (-22° to 159.8°F)
- Altitude ≤10,000 ft.

Test Set Certifications

- MIL-PRF-28800F Class 2
- MIL-STD-810F
- UL, CE

For a complete certification list, see GPSG-1000 Specification Sheet