

CAST Navigation, LLC



THE COMPANY

CAST Navigation, LLC (CAST) has been serving the GPS community for over 25 years by supplying cutting edge GPS simulators for land, sea, air and space programs worldwide.

Their technical support, based in the US, is enhanced by a network of international representatives solely dedicated to helping its customers achieve timely responses no matter where they are located.

GPS Advancements

CAST has recently redesigned its GPS signal generator board. The new design is FPGA based, and features up to 16 channels of Satellite Vehicle simulation. In addition to achieving six more satellites per board, CAST now offers L2C, L5, SBAS, M-code and SAASM simulation capabilities as well.

Introducing the New Cast-sim-com Simulator

The new SIMCOM GPS simulation system from CAST produces GPS RF signals that provide dynamic, repeatable testing in the laboratory for a wide range of GPS applications. The simulator produces a constellation of GPS RF signals that are fully programmable and controlled by the simulator software in real time.

The SIMCOM simulator generates a full constellation of GPS with up to 16 satellites in view selected from the defined 32 Pseudo Random Noise codes. It generates signals for up to 16 channels of C/A code and the new M-noise signal on L1.

Three user-defined test scenarios are delivered with the simulator. Software is included for remotely controlling the simulator from a Windows PC via Ethernet. A single PC may control multiple SIMCOM units simultaneously. Each simulator can output GPS signals for testing up to 64 receivers simultaneously. With the scenario generation option, the user has the ability to select from a variety of vehicle types and simulate dynamic



motion for land, sea, air and space based vehicles. They may also generate a trajectory by defining a total mission profile or by using six degree of freedom dynamic profile data collected in the field.

With the NMEA post processing option, the system's performance evaluation module provides the capability to compare raw measurements and filtered data received from the GPS navigation system with true vehicle position for performing post-test analysis.

Customer Loyalty

CAST is proud of its diverse customer base and strives to continually gain their loyalty by being responsive to their needs. Consistently immersing itself in next generation technologies helps CAST fulfill customer requirements as they arise.

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