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## 1. GNSS SIMULATOR TESTING FOR SIGNALS AND SENSORS

The GSG-8 is an advanced software-defined simulator that offers ultra-high performance and flexibility in an easy-to-use format. It was developed to deliver the highest standard of GNSS signal testing and sensor simulation performance in an upgradable, scalable platform. The GSG-8 uses the robust 1000-Hz Skydel software engine. It is designed for customers who require complex capabilities to validate product and program performance in harsh, high-risk environments where failure is not an option, such as government agencies, space programs and specialized commercial programs.

**Orolia, [www.orolia.com](http://www.orolia.com)**

## 2. GNSS MODULE CM-LEVEL GNSS POSITIONING FOR IOT

The Edge Locate GNSS L1/L2/E5 module combines antenna, RF electronics and receiver technology to deliver reliable centimeter-level positioning for the internet of things (IoT). It provides 1- to 3-centimeter-level accuracy using multi-band GNSS technology. With Edge Locate, manufacturers can quickly and effectively build devices with centimeter-level positioning technology. Its multi-band GNSS positioning can be used in conjunction with real-time kinematic (RTK) positioning capability. It uses a common connector for integration into any electronics device. It also

connects directly to the Taoglas Edge board for immediate connectivity options.

**Taoglas, [www.taoglas.com](http://www.taoglas.com)**

## 3. PRECISION ANTENNA OFFERS STRONG MULTIPATH REJECTION

The VSP600L VeroStar precision antenna supports the full GNSS spectrum, as well as L-band correction services, and provides low-elevation satellite tracking with a high-efficiency radiating element. It is suitable for real-time kinematic (RTK) and precise point positioning (PPP) applications, and features a light, compact and robust design. It also has a low axial ratio through all elevation angles, providing strong multipath rejection. The VSP600L VeroStar provides high receive gain over the full GNSS spectrum: low GNSS band (1164 MHz to 1300 MHz), L-band correction services (1539 MHz to 1559 MHz) and high GNSS band (1559 MHz to 1610 MHz).

**Tallysman, [www.tallysman.com](http://www.tallysman.com)**

## 4. L1 + L5 CHIP SUITABLE FOR IOT AND AUTO OBD

The ORG4600-B01, OriginGPS' first dual-frequency GNSS module, is supported by the BCM47758 chip, enabling ultra-accurate GNSS positioning. It was developed for solutions requiring super-precision GNSS and a dual-frequency combination. The module enables customers to build solutions with sub-1-meter accuracy without implementing external components.

Measuring 10 x 10 millimeters, the ORG4600-B01 supports L1 + L5 GNSS reception with one RF port, enabling use of a low-cost, dual-band antenna delivering sub-1-meter accuracy performance in real-world conditions. An alternate build option allows for separate L1/L5 RF outputs when dual antennas are required. The module is suitable for solutions requiring ultra-accurate positioning, such as telematics, the internet of things (IoT) and auto OBD applications.

**OriginGPS, [origingps.com](http://origingps.com);  
Broadcom, [www.broadcom.com](http://www.broadcom.com)**

## 5. OEM RECEIVER ALL-CONSTELLATION, MULTI-FREQUENCY POSITIONING

The PwrPak7-E2 contains an advanced Epson G370N MEMS inertial measurement unit (IMU) to deliver NovAtel SPAN technology in an integrated, single-box solution. It has a powerful OEM7 GNSS engine, built-in Wi-Fi, onboard NTRIP client and server support, and 16 GB of internal storage with higher performance and INS data rate. Connection options include serial, USB, CAN and Ethernet. Features include a 555-channel, all-constellation, multi-frequency positioning solution and multi-channel L-band that supports TerraStar correction services. It can be paired with an external receiver to support ALIGN GNSS azimuth aiding for low dynamic applications.

**NovAtel, [www.novatel.com](http://www.novatel.com)**