

# GPS MODULES | GPS ANTENNA MODULES



## ABOUT ORIGINGPS

**OriginGPS** is a world leading developer, manufacturer and provider of advanced minimized GPS antenna-modules.

The OriginGPS solution enables OEMs to develop a wide range of small, low power cost efficient GPS enabled solutions.

OriginGPS owns several fundamental patents relating to the integration of antenna into hybrid modules.

OriginGPS was founded in 2006 and operates through its global network of partners and customers in Europe, USA and APAC. OriginGPS is headquartered in Israel, Jerusalem.

### For More Information

Contact Canial-8: **OriginGPS** Manufacturing Representative in Canada on: **613 836-4840** or send an email to **info@cranial-8.com**.

## SMALLEST - INTEGRATED - HIGH PERFORMANCE



OriginGPS solutions enable OEMs to rapidly develop a range of solutions for the accelerating and lucrative GPS market –that, according to ABI Research, is slated to “surpass 900 million unit shipments by 2013”.

OriginGPS provide a range of solutions, all providing a highly integrated GPS system housed in a single ultra-small module. Featuring OriginGPS patented built-in antenna design these products facilitate optimal integration for a wide range of GPS enabled equipment, including, but not limited to: mobile communications, asset tracking, fleet management and performance sports.

Key advantages of the OriginGPS solution are:

- **Smallest integrated GPS Antenna modules in the world!**
- **Module design optimized for high-volume manufacturing and test**
- **Wide range of GPS modules for many types of application**
- **High sensitivity, high location accuracy, and low fix times**
- **Low power consumption - extending battery life for portables**
- **Feature-rich: AGPS, SBAS, integration with 3D MEMS sensors**
- **Special designs for the defense market**
- **Customer design-in support packages**



ORG1415-AB1

## TODAY'S DESIGN CHALLENGES

The challenge faced by designers of today's GPS system is to manage the trade-off between product miniaturisation and product performance. Compounded, especially in high-end applications, by antenna performance and EMI issues, this is an exacting science. Fortunately OriginGPS has a sustained technological advantage and delivers a proven painless-to-integrate solution. Removing this significant headache not only accelerates the time to market but frees valuable resource allowing YOU to focus on your product's core value proposition!



## PRODUCT **SERIES** & APPLICATIONS

The OriginGPS product family line-up comprises of a series of three:

- **ORG4472** – The world’s smallest GPS module at a mere 7mm x 7mm. The ORG447X incorporates the SiRFStarIV GPS processor.
- **ORG14XX** – GPS Antenna Modules. The ORG14XX incorporates the SiRFStarIV GPS processor.
- **ORG20XX** – The world’s smallest GPS Antenna at 14mm x 14mm. The ORG20XX require an external application processor to run the GPS stack.

### ORG4472



ORG4472

The ORG4472 series is the world’s smallest GPS engine module in the world. The ORG4472 is perfect for small portable devices (7 x 7 x 1.4mm).

The ORG4472 features a power saving mode running at 10mW, considerably lower than competing devices. The ORG4472’s tracking sensitivity is -163dBm and a fast TTFF of <35ns during autonomous cold start. Support is provided for both passive and active antenna. Navigation stability is extremely low due to the use of a highly stable and accurate TCXO design. The ORG4472 also features built-in sensor fusion support allowing direct interface with a range of MEMS sensors (accelerometers, magnetometers, gyros etc.) via the I2C connection.

- **External GPS Antenna**
- **Multi-Channel GPS receiver**
- **Stand-alone operation**
- **Noise Free Zone System (NFZ™) technology**

### ORG14XX

The ORG14XX series provides the OEM with several options, including low profile molded modules, external antenna capability, and sensitivity selections. The



ORG1415

ORG14XX are ideally suited for a wide range of applications including, people and animal tracking systems, sports and recreation accessories, vehicle tracking and fleet management systems, automotive navigation systems and rescue emergency systems.

- **Embedded or External GPS Antenna**
- **Multi-Channel GPS receiver**
- **Stand-alone operation**
- **Noise Free Zone System (NFZ™) technology**

### Evaluation Experience

Evaluating OriginGPS products could not be simpler: all products are supported by a module evaluation kit that



ORG4472 Evaluation Kit

contains an evaluation board (with selected module), a USB to UART converter cable and CD with support documentation.

You are never alone during your GPS development: OriginGPS has an experienced RF team ready to take your call and provides an array of support package options.

Get started by calling Cranial-8 on **+1 613 836 4840**.