

RE Partner Solution

Sony's GPS/GNSS Receiver and Positioning Engine Solution



Solution Summary

Sony Semiconductor Solutions' GPS/GNSS receiver/processor chips use high-frequency analog circuits and digital signal processing circuits with proprietary designs to deliver accurate positioning with the lowest power consumption level in the industry. [Combining with RE01](#) will make it possible to develop GPS receivers driven by an energy harvesting system.

Features

- **Low Power Consumption**

Newly developed high-frequency analog circuits such as dedicated low power consumption A/D converter, low noise amplifier, and phase synchronization circuits, and optimal power control and low power consumption circuits achieve operation with the lowest power consumption level in the industry.

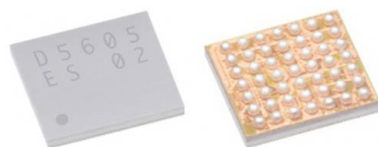
- **Positioning Performance**

Sony Semiconductor Solutions' GPS/GNSS receiver/processor chips use a proprietary positioning algorithm to enable good positioning performance even under harsh conditions.

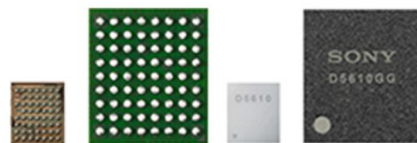
- **Space-Saving (small area)**

Compact package realizes a positioning system with an area of 70 to 100 mm² or less, including peripheral circuits.

Graphics



CXD5605AGF



CXD5610GG/GF

- CXD5605AGF
 - Continuous tracking mode: 6mW
 - Optional power supply IC (CXD5605AGF)

- CXD5610GF
 - Continuous tracking mode: 6mW
 - Supports dual band (L1, L5)

Target Market and Applications

- GPS Watches
- Cameras
- Wearable Products
- Monitoring, and Healthcare Products

Corporate profile

Company Name	Sony Semiconductor Solutions Corporation
Founded	November 9, 2015 (Operation start: April 1, 2016)
Headquarters	4-14-1 Asahi-cho, Atsugi-shi, Kanagawa, 243-0014 Japan
Common Stock	400 million yen (Sony Corporation's 100% Subsidiary)
Business Overview	Research, development, manufacturing, and sales of semiconductor related products and electronic/electric equipment, as well as other associated businesses.

<https://www.sony-semicon.co.jp/e/company/about/>