SoftSpot

Real-Time Software GNSS Receiver

Locate

And

Be

Located

Whether your business' domain is Aeronautics, Space, Research, IoT or Telecoms, as an OEM, you are faced with the need for performance, increased precision, versatility and cost effectiveness.

This is why Syntony has created SoftSpot, the only Real-Time Capable Software GNSS Receiver on the market designed for running on high-end embedded platform or mobile system or PC.

The reference version of SoftSpot runs in Real Time (C language) on PCs.

It can either be delivered as simple software running on our customer's hardware, or together with a hardware platform (reference, on PC) or be embedded (RF, Numeric, or both).

SoftSpot takes I/Q samples from the RF Stage at intermediate frequency, and can process signal correlation either by software or through FPGA correlators.

SoftSpot performs cold and warm acquisition, computes correlators results, processes signal tracking, generates pseudoranges, and at last, provides PVT solution.

- ✓ Multiple GNSS Signal Receiver
- ✓ High Performance GNSS reception
- ✓ Full post delivery upgradability
  - ✓ Functional & Performance improvement
  - ✓ Compatibility enhance
- 100Mhz sampling rate (max)
- ✓
- ✓ From L1 C/A only up to Multi-GNSS
- ✓ Single or Multi-frequency
- ✓ Single or Multi-antenna
- ✓ Autonomous module or RF + Software on processor board of customer

A Dedicated Pack is available for Laboratory configurations, where the PC is delivered (and configured), together with an "Off-The-Shelves" RF Stage for direct use of SoftSpot on the PC.

SoftSpot can also be used for Real Time deep signal analysis of the received signal, and display all issues like abnormal C/N0, unrealistic PVT solution, errors inside the navigation message, satellites out of order, etc.

Software Defined Radio makes the difference :

- Versatile, upgradeable, adaptable to customer's requirement
- Compatible with any future signal
- Allows improving functioning even after satellite launch
- Software can run on customer's board