

New Versions of iSuite 3 GPS SDK and iTrax03 Firmware

Fastrax Ltd. (Finland) has announced the latest versions of the Fastrax iSuite 3 SDK and iTrax03 GPS receiver firmware with numerous new features and updates that significantly improve GPS reception in difficult conditions such as urban canyon environments.

The Fastrax iSuite 3 SDK can be used to rapidly modify the features and functionality of a GPS receiver, allowing receiver performance and power management to be tailored for any usage scenario. By utilising the spare CPU and memory resources of the GPS receiver, the Fastrax iSuite 3 SDK can significantly reduce the bill of materials and non-recurring expenses of GPS products.

The iSuite 3 SDK is used to develop customer-specific applications to be executed on Fastrax iTrax03 OEM GPS receivers. These applications can utilise the on-chip memory and file system for data and software code storage, and access the various I/O lines on the iTrax03.

New or improved features in version 3.11 of the iSuite SDK include:

- costas PLL tracking loops with accurate carrier phase measurements
- logging system with interval and automode
- odometer
- pull fix mode that allows users to query location data
- advanced debugging features, including CPU load measurement (SDK only)
- support for measurement data rates up to 100 Hz
- improved multi-path and cross-correlation mitigation for better performance in urban canyon environments
- improved data decoding sensitivity down to -142 dBm
- reacquisition sensitivity -147dBm
- faster reacquisition time
- improved navigation sensitivity down to -153dBm
- Improved static circular accuracy: 50% 0.30 meters; 95% 1.16 metres