



# Profound Instant PPP (IP3) Solution

## PPP for low-cost GNSS chips and modules

**Profound Instant PPP (IP3)** is the first precise point positioning (PPP) firmware in the market that works with low-cost GNSS chips and modules. Backed by PPI's PPP+ technology, IP3 features multi-constellations, global availability, fast convergence and continuous navigation solutions through novel integration of low-cost GNSS and PPP technology.

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### High Precision

IP3 offers 50 cm (CEP) positioning accuracy with single-frequency GNSS signals and further enhanced positioning accuracy and reliability with additional L2C/L5 signals, all using low-cost GNSS chips and modules.



### Fast Convergence

IP3 offers fast convergence within seconds, ready to support operational applications requesting instant solutions such as vehicle navigation and mobile device location.



### Customization

IP3 can be customized to work with various low-cost GNSS chips and modules and run in real-time for different mainstream processors.



### Global Availability

IP3 offers worldwide availability of precise and consistent positioning and navigation solutions. No loss of precision even in difficult signal environments.



### Multi-constellation GNSS

IP3 supports all current GNSS constellations, including GPS, GLONASS, Galileo, BeiDou, QZSS and IRNSS.



Evaluation Kit

## Applications

Precise location information obtainable at low-cost plays a crucial role for mass-market applications such as:

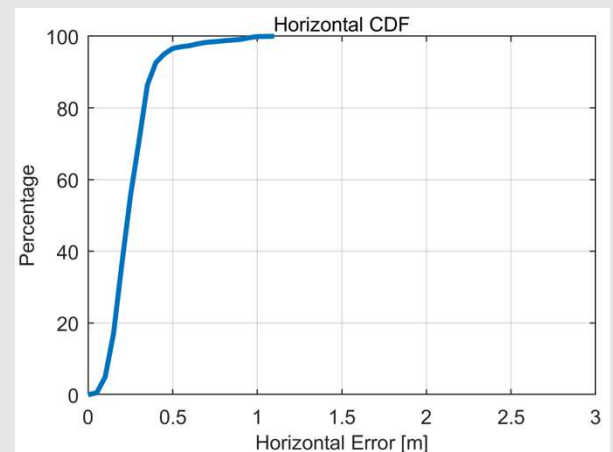
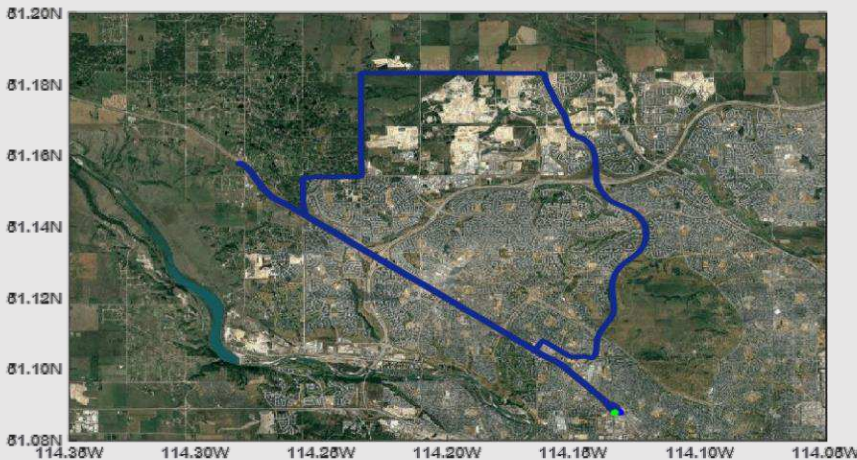
- UAV in confined environments.
- Self-driving cars in intelligent transportation systems,
- Mobile devices to create value-added services.

By novel integration of low-cost GNSS and PPP technology, IP3 is an ideal precise positioning solution for mass-market applications and as a turn-key for OEM manufacturers and system integrators to develop quick-to-market products.



## Key Features

- Low-cost precise GNSS solution
- Fast convergence within seconds
- Support single (L1) and dual frequency (L1 + L2C/L5) signals
- Support all current GNSS constellations
- Worldwide availability of consistent navigation solutions
- Less sensitive to the latency and loss of augmentation data
- Firmware library can be customized for different receivers/processors



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