

Profound-IVT

Instant
Vehicle Tracking

Profound Instant Vehicle Tracking (Profound-IVT) is the only cost effective vehicle navigation solution with the continuous performance now demanded for safer, more efficient driving – everywhere vehicles go.

High Precision

Profound-IVT offers continuous decimeter level positioning accuracy with single-frequency GNSS signals all using low-cost consumer and automotive level chips, sensors and modules

Fast Convergence

Profound-IVT offers fast convergence within seconds, ready to support operational applications requesting instant solutions such as vehicle navigation, ADAS, fleet, mobility and mobile device applications.

Customization

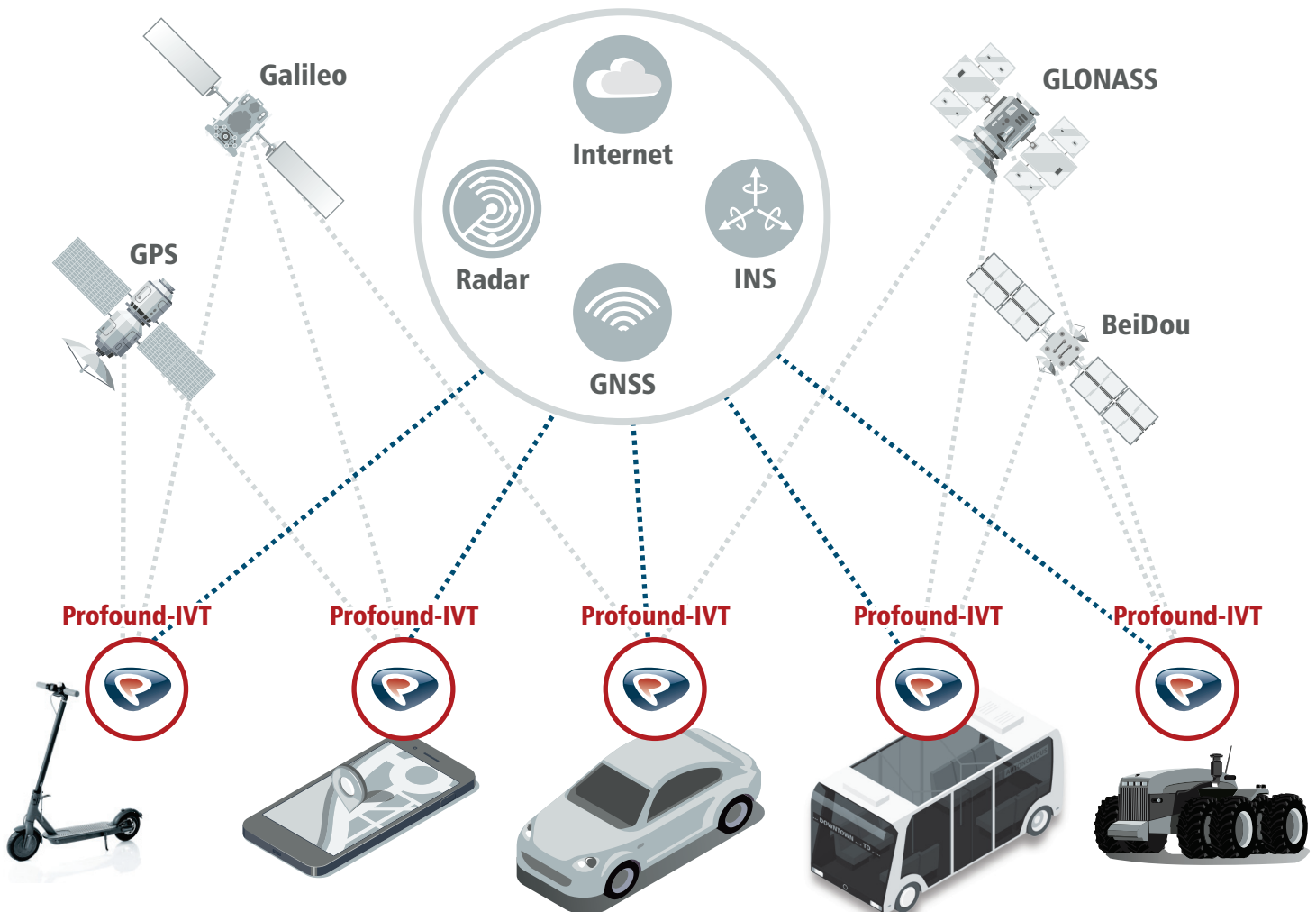
Profound-IVT can be customized to work with various navigation chips and modules and run in real-time with different mainstream processors.

Continuous Availability

Profound-IVT offers worldwide precise and consistent positioning and navigation solutions, with errors < 1% of distance travelled, and starts anywhere, even in challenging environments such as tunnels, parkades and dense urban settings.

Radar Enhanced

Navigation and hazard avoidance in both indoor and outdoor environments under adverse and challenging operating conditions. Profound's radar technology is immune to degraded vision conditions, and operates independent of infrastructure.



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Instant Vehicle Tracking



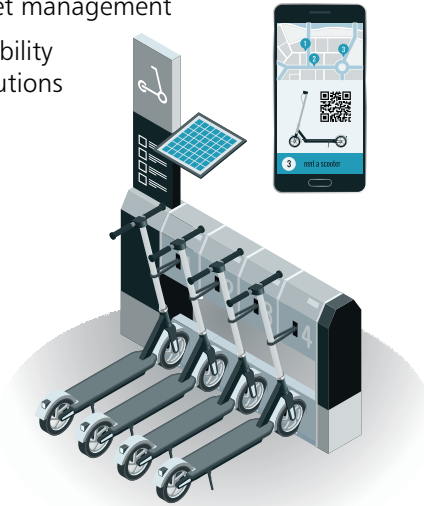
Key Features

- Precise: Decimeter level accuracy plus orientation and velocity
- Instant: Resolution <5s
- Continuous: Performs in tunnels, dense urban environments, multi-level highway junctions, and even parkades with errors <1% of distance travelled
- Starts Anywhere: Even without initial GNSS
- Supports all current GNSS constellations.
- Low-cost: Suitable for large scale vehicle deployment
- Insensitive to latency and loss of augmentation data.
- Based on firmware library and rapidly adaptable to any navigation platform.

Target Applications

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

- Advanced Driver Assistance Solutions (ADAS)
- Autonomous Vehicle Navigation
- Mobile Device Applications
- Fleet management
- Mobility solutions



By novel integration of low-cost GNSS, PPP technology, Inertial Systems and Radar, Profound-IVT is an ideal precise positioning solution for mass-market applications and as a turnkey for OEM manufacturers and system integrators to develop quick-to-market products.

Profound-IVT

**Accuracy
of 0.5 m CEP**



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