Swift Navigation’s solution makes it easy for OEMs to integrate precise positioning into their fleets. Designed for ADAS, cV2X, HD navigation and autonomy—and built to scale for automotive—Swift delivers absolute positioning, at lane-level accuracy, for safety-critical autonomous vehicle applications as a software-only solution with minimal or zero impact to hardware.

Swift was founded on the notion that GNSS positioning technology should be more accurate and affordable. Since its inception, Swift has accomplished just that, and today we find ourselves at a technology inflection point where all required enablers are available to make high-precision automotive localization a reality. With the availability of data connectivity and low-cost AECQ/ASIL single- and multi-frequency GNSS chipsets on vehicles, Swift offers the highly-accurate, receiver-agnostic and affordable Starling® Positioning Engine and Skylark™ Cloud Corrections Service to make Level 2-5 autonomy a reality.

**Starling GNSS Positioning Engine**

Autonomy requires accuracy and Swift’s Starling Positioning Engine is designed with your vehicles in mind. A receiver-agnostic platform, the Starling precision positioning engine easily integrates with both Swift GNSS receivers and third-party chipsets, pulling corrections from Swift’s Skylark Cloud Corrections service to deliver absolute positioning for safety-critical autonomous vehicle applications.

Starling offers automotive companies a choice in selecting the best components for their autonomous sensor suite, vehicle to everything (V2X) applications and Automated Driving Systems. Starling is engineered from the ground up to comply with the automotive industry functional-safety standard - ISO 26262 for Automotive Safety Integrity Level (ASIL)-B safety standards and leverages Swift’s Skylark Cloud Corrections Service.
Skylark Cloud Corrections Service

Skylark is a one-of-a-kind, cloud-based GNSS corrections service with continental coverage. Skylark delivers affordable, fast, centimeter-level accuracy and eliminates the complexity of integrating high-precision GNSS technology. Skylark was built from the ground up for autonomy at scale and enables high-precision positioning for mass market automotive and autonomous applications while delivering quick and robust positioning data with high reliability and availability—even in challenging environments.

Unlike existing local high-precision solutions that leave users tethered to base stations, Skylark provides a simple path for customers to achieve centimeter accuracy. Legacy global high-precision solutions that offer centimeter-accuracy require up to 30 minutes of waiting during initialization, while Skylark provides fast initialization with high precision. By moving the service to the cloud, Skylark creates a modern platform for high-precision GNSS navigation of autonomous vehicles, via Internet connectivity.

In addition to the GNSS products you need, Swift has a knowledgeable and experienced applications engineering team available to support your company and integrations as they are tested, implemented and brought to market. Contact sales@swiftnav.com to get your pilot program started today!

- **HIGH INTEGRITY**
  Delivering a Protection Level down to 1m and a Target Integrity Risk (TIR) down to $10^{-7}$

- **FAST CONVERGENCE**
  Delivering real-time, highly-accurate corrections with reduced convergence times

- **ABSOLUTE POSITIONING**
  Providing positioning in an Earth fixed datum delivering a common frame of reference

- **IMPROVE NAVIGATION**
  Lane-level accuracy enables more accurate driving instructions