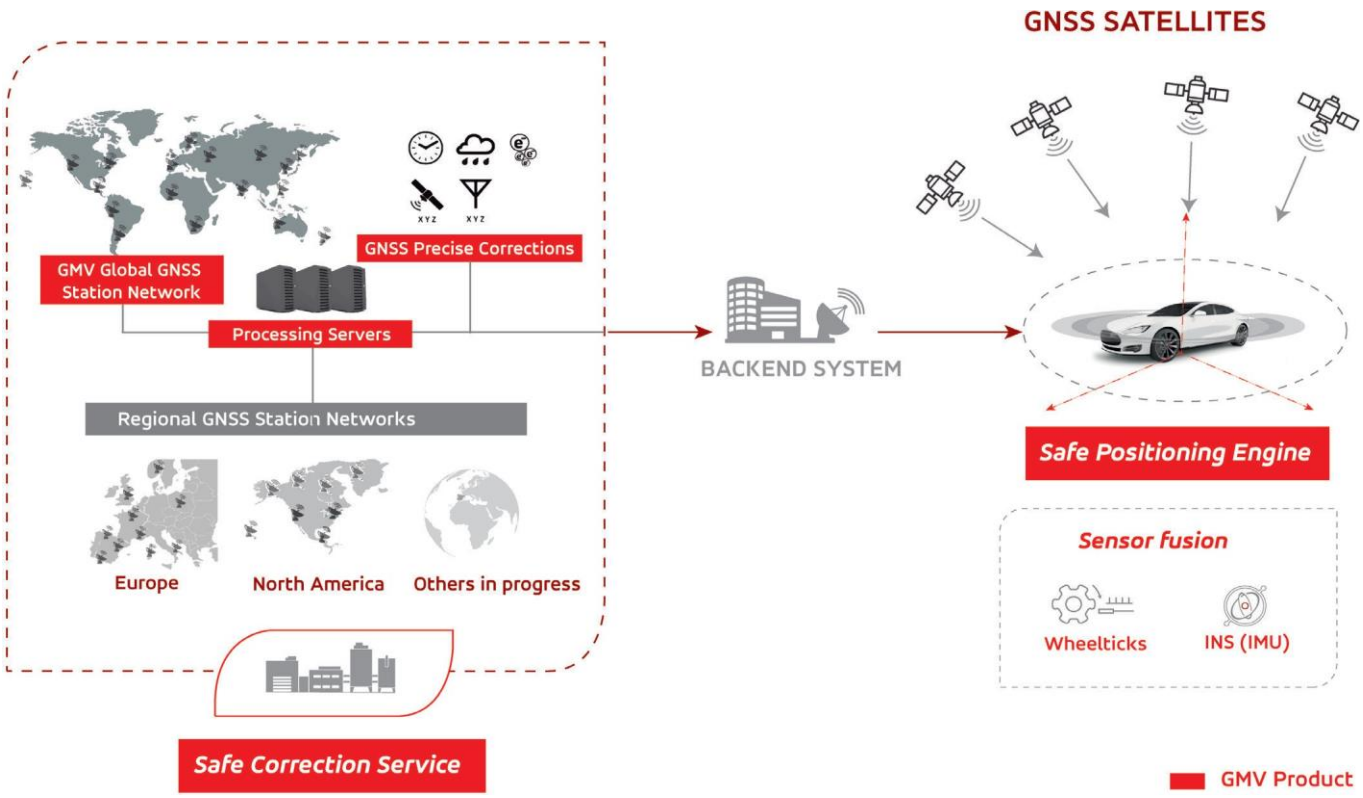
GMV GSharp®

SAFE HIGH-ACCURACY RELIABLE POSITIONING FOR AUTOMOTIVE



AUTOMOTIVE

GMV's safe precise positioning for autonomous driving

What is *GMV GSharp*®?

- Complete GNSS Positioning Suite: **Positioning Engine & Correction Service**
- **ASIL-B (ISO 26262)** certified solution
- **Precise and Safe GNSS based positioning solution** for highly demanding **Autonomous Driving (AD)**
- Integrity concept compliant with **SOTIF** (ISO 21488)
- Multi-constellation and multi-frequency
- Proprietary Global GNSS Network
- PPP-RTK technology with standard PPP messages (RTCM-SSR, IGS-SSR) and RTK SSR2OSR conversion
- Highly Flexible SW meeting customer integration needs with different target platforms
- Sensor fusion with IMU, wheel ticks, and other sensors
- Cybersecurity mechanisms according to **ISO 21434**
- Compatible with V2X applications

What is our performance?

- Integrity Risk < up to 10^{-7}/h
- Service Availability (SLA) > 99,9 %
- Horizontal Accuracy < 10 cm (95%)*
- Convergence Time < 30 s
- Almost Instantaneous Reconvergence Time
- Service 24/7

* Nominal accuracy achieved with a mass-market automotive GNSS receiver under open sky conditions

Cutting-edge safety technology based on our experience in EGNOS & GALILEO as responsible for GNSS safety critical elements and high accuracy positioning systems

High accuracy & integrity
- SubLane-level accuracy
- TIR 10-7/hour

ASIL-B (ISO 26262 certified) plus additional standards fulfilled:
- ISO 21448 (SOTIF)
- ISO/SAE 21434
- A-SPICE CL3
- Jamming & Spoofing protection

Thorough Safety Validation
- RFSIM
- Edit & Replay
- Driving

Trusted by OEMs
Solution already installed in vehicles in production

INTELLECTUAL PROPERTY PATENTED

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