

# GMV GSharp®

SAFE HIGH-ACCURACY RELIABLE POSITIONING SOLUTION



SPACE | AUTOMOTIVE | INDUSTRY | AERONAUTICS

**GMV's Safe and High-Accuracy  
solution for multipurpose  
applications and services**

[gmv.com](http://gmv.com)



# What is **GMV GSharp®**?

**GMV GSharp®** provides safe real-time GNSS corrections and file-based GNSS products with minimal latency, and variable sampling rate, length and update rate.

Our key features:

- Service provided by GMV 24/7, 365 days, capable of providing accurate and reliable GNSS corrections and products.
- Global GNSS Network (40 triply redundant multi-GNSS reference stations) owned, operated and monitored by GMV.
- Service processing hosted within redundant physical processing centers on different continents.
- Worldwide coverage provision, any time, anywhere. Enhanced convergence time within Regional areas.
- Multi-constellation and multi-frequency.
- Integrity Information for Safety-Critical Applications.
- Security Layer and continuous cybersecurity monitoring.

Global GNSS Station Network (GGSN), worldwide reference network deployed, owned, and operated by GMV. Continuous monitoring of all flying GNSS satellites from no less than 4 reference stations at any time. Data measurements are sent at 1 Hz both in RTCM and binary formats to GMV's operation centres, where it is processed and analysed in real-time, prior to its distribution to external or internal users.



## What is our commitment?

Supported constellations	GPS L1/L2/L5 GLONASS L1/L2 Galileo E1/E5b BeiDou B1/B2
Satellite orbits	< 3 cm 1-D RMS
Satellite clock	< 0,06 ns Sigma
Horizontal accuracy	< 3 cm (95%)
Vertical accuracy	< 6 cm (95%)
Integrity Risk	< up to 10 <sup>-7</sup> /h
Reference frame	ITRF 2020
Availability	> 99,9 %

*\* Nominal accuracy achieved with a geodetic GNSS receiver under open sky conditions at GMV's premises*



**Minimum Latency**  
Precise GNSS product provision for POD of LEO Satellite Missions



**PPP-RTK Corrections**  
for Precision Agriculture. High accuracy and Low Convergence



**Safe Positioning Solution**  
for industrial machinery and trucks, which harsh local conditions



**Safe Positioning Engine**  
compatible with different ECUs processing different sensors



**Safe and precise GNSS positioning**  
solution for autonomous driving applications



**Worldwide service**  
coverage to cope with Maritime and Offshore needs