

# GS380L – Geolocation Signal Enhancement System

## Product Description

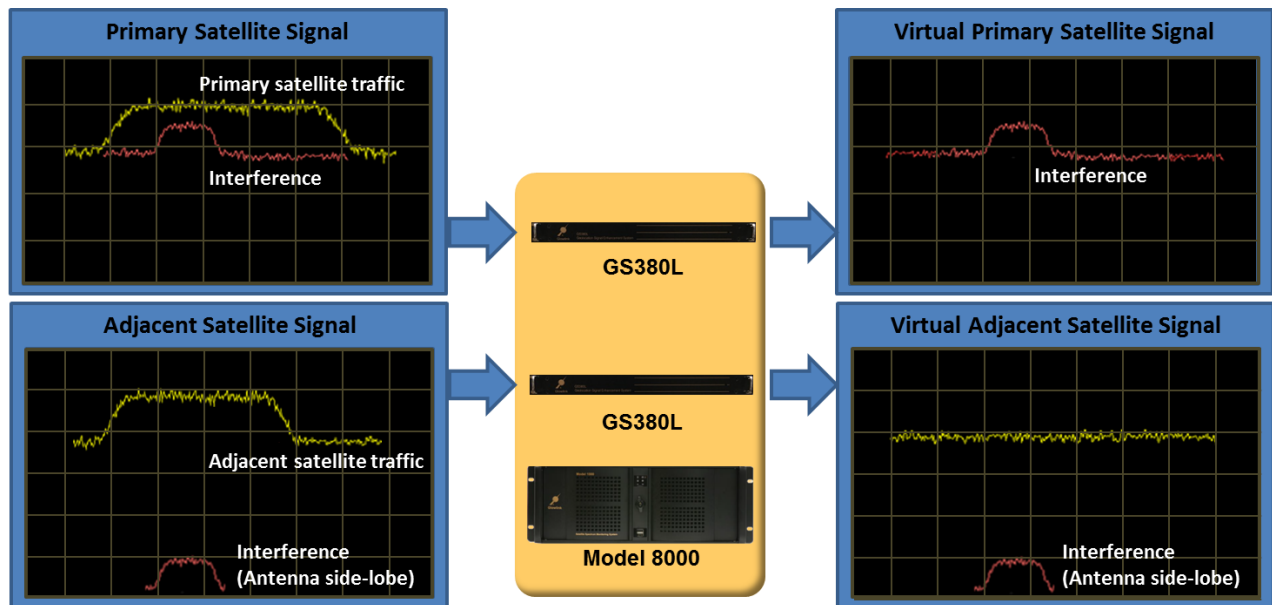
The GS380L Geolocation Signal Enhancement System is a breakthrough product from Glowlink that dramatically improves the performance and effectiveness of a satellite interference geolocation system.

Geolocation can be the only way to locate and mitigate unauthorized transmissions. However, geolocation systems are often constrained by the fact that an interference signal--especially its weak replica on an adjacent satellite--can be masked by an existing traffic carrier on the adjacent satellite. This makes geolocation inaccurate or impossible in many cases. The GS380L overcomes this problem by removing in real-time the masking carrier so that the underlying interference and its replica can be exposed for geolocation.

The GS380L is designed to work with the Glowlink Model 8000 satellite geolocation system and is based on Glowlink's CSIR™ technology platform.

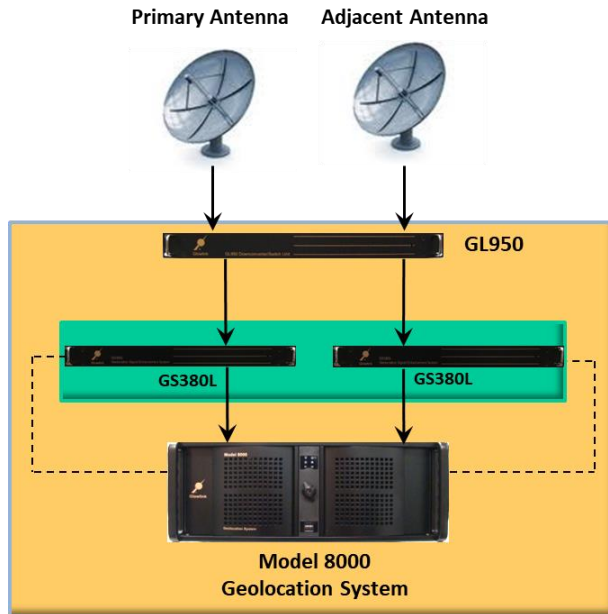
When combined with the Model 8000, use of the GS380L can improve the Model 8000 performance by as much as +70 dB, for an unprecedented +142 dB PG in overall processing gain. This level of performance practically ensures that an interference geolocation operation will *always* succeed for cases that otherwise cannot, such as when an interference signal is heavily obscured by traffic-bearing carriers on adjacent satellites.

The GS380L can be used on the primary satellite, the adjacent satellite or both which is illustrated in the figure below.



**GS380L Removes Masking Carriers and Enhances Geolocation Performance**

A typical architecture of the GS380L and Model 8000 enhanced geolocation system is illustrated in the following diagram.



**Geolocation System Enhanced With GS380L(s)**

The GS380L is also compatible with Glowlink’s proprietary Single Satellite Geolocation (SSG™) product, with similar improvement in performance.

For more information on the Glowlink GS380L System and how it fits into a geolocation infrastructure, or to inquire about licensing the CSIR™ technology for use in your communications application, please contact [sales@glowlink.com](mailto:sales@glowlink.com).

### **GS380L Geolocation Signal Enhancement System -- Product Features**

- Increase geolocation system processing gain by as much as +70 dB
- Achieve geolocation where it is impossible due to obstructing traffic-bearing carriers
- Works with Glowlink’s multi-satellite and single-satellite geolocation products
- Compact 2U chassis construction

### **About Glowlink Communications Technology, Inc.**

Based in the Silicon Valley, United States, Glowlink Communications Technology, Inc. provides equipment and services that improve the performance of broadband communications, both satellite and non-satellite based. It is a recognized industry leader of innovative solutions for broadband communications, carrier spectrum monitoring, interference detection/mitigation, geolocation, network management and other applications. Contact the company at [sales@glowlink.com](mailto:sales@glowlink.com) for additional product and purchase information.

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