

GS380S – Signal Separation System

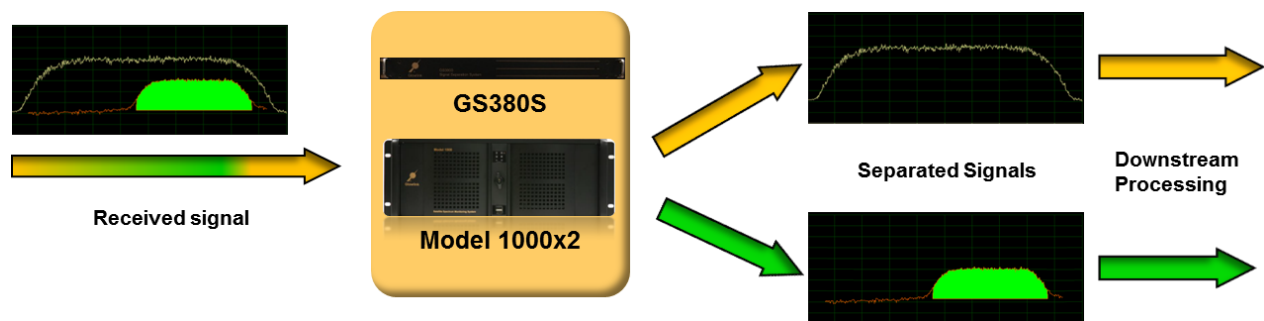
Product Description

The GS380S Signal Separation System is the latest innovation from Glowlink designed to perform the function of separating two overlapping communication carriers into individual signal streams for further downstream processing. The system is based on Glowlink’s patented CSIR™ streaming technology and separates the overlapping carriers *in real time*.

The GS380S is used in combination with a Glowlink Model 1000x2 Spectrum Monitoring System to separate signals that deliberately overlap, such as those found in bandwidth-saving paired-carrier transmissions used in satellite communications. The separated signals can then be further processed downstream for a variety of reception, monitoring and analysis purposes as shown below. The GS380S can also be used for separation of an intentional or unintentional overlapping signal such as an interference.

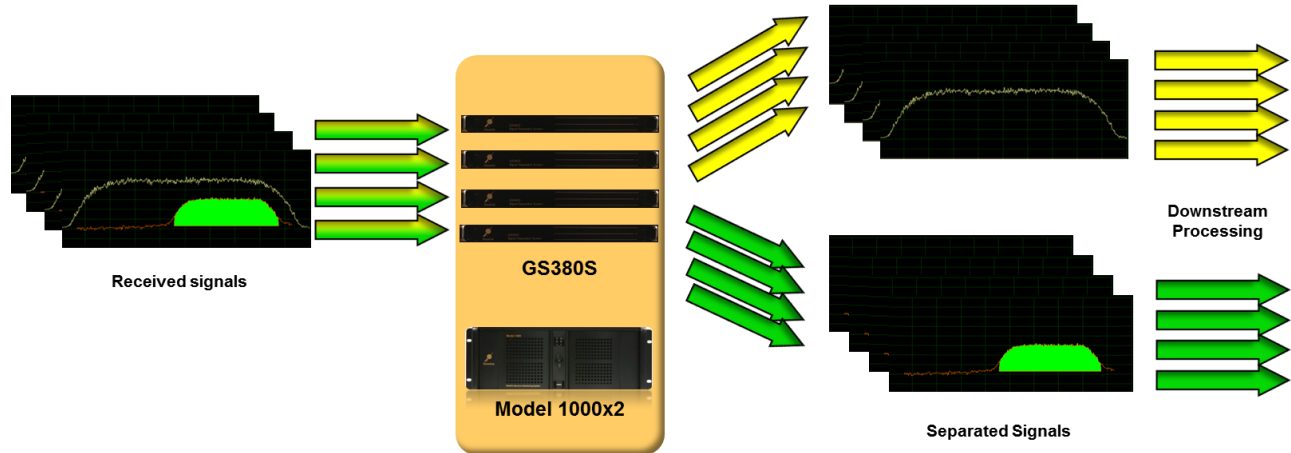
The GS380S is a real-time streaming system that can be used on a variety of communications signals including those found in airborne communications/telemetry, satellite/space communications, terrestrial communications, and shipboard communications. It also supports buffered or non-streaming, non-real-time applications.

The GS380S does not need *a priori* knowledge of the modulation or other characteristics of the overlapping signals. The only information required is an approximate knowledge of the carrier’s center frequency, bandwidth and modulation. With this information, the GS380S will proceed to separate the overlapping carriers and preserve the fidelity of each signal. This is illustrated in the following diagram.



GS380S Separates and Streams Overlapping Signals

The GS380S system can be scaled to separate overlapping signals in multiple channels, illustrated in the figure below.



GS380S in Multi-Channel Configuration

The configuration above is also scalable *en masse* such that more than one Model 1000x2 series units can be deployed, each in conjunction with up to eight GS380S units for a comprehensive signal separation infrastructure.

For more information on the Glowlink GS380S System and the configurations available for application to your communications system, or to inquire about licensing the technology for use in your communications application, please contact sales@glowlink.com.

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 for additional product and purchase information. Website: www.glowlink.com.