

COMMUNICATION SIGNAL INTERFERENCE REMOVER (CSIR™)

CSIR is an interference removal solution for a communication link. It can be used to enhance receive signal quality.



Interference Removal

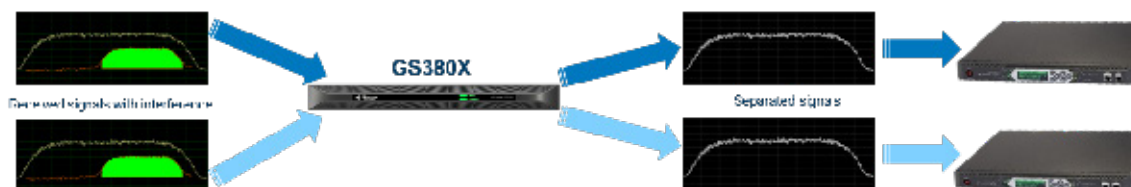
The Glowlink GS380X is designed to excise interferences in real-time from a communication signal before the signal reaches the receiver. Thus the demodulation part of the communication channel never “sees” the interference and as a result is never adversely affected.

Applicable in stationary and mobile networks including maritime and airborne, users do not require any knowledge of the characteristics of the interference of the communications signal. The only required information is approximate knowledge of the user’s carrier center frequency and symbol rate. With that minimal knowledge, CSIR will precisely measure these parameters and proceed to remove in real time any interferences whether malicious or inadvertent.



GS380X Removes Interference Streams from Communications Signal

The GS380X system can also be configured to handle multiple channels. The following diagram shows how the GS380X system can be applied in a multi-channel configuration.





Supported Signal Types

Signal Type	Digitally modulated communication signals
Modulation	Compatible with PSK, APSK, QAM and other modulation
Signal Techniques	Various, including FDMA, TDMA, DSSS, FH, and ACM
Interference Types Removed	Continuous Wave (tone) Modulated Swept Burst Hop signals

RF Characteristics

Input Connector	Type N, 950-2150 MHz, -55 dBm to 0 dBm (max no damage +10 dBm), 50 Ω
Output Connector	Type N, 950-2150 MHz, 50 Ω
10 MHz Reference Input	Type N, 0 to +10 dBm, 50 Ω
Operational Bandwidth	100 MHz
Symbol Rate	250-100,000 ksps
Insertion Loss	0.1 to 0.2 dB, typical

Data Interface

Network	iEthernet (RJ-45)
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RF Characteristics

Size	W 19.00 in x D 12.00 in x H 1.75 in (W 48.26 cm x D 30.48 cm x H 4.45 cm)
Weight	6 lbs (2.7 kg)
Temperature	Operational 57.2° to 107.6°F (14° to 42°C)
Humidity	30 to 90%, at 95°F (35°C) non-condensing
Input Voltage	100–240 VAC, 50–60Hz