SIGN4L

GPS-Protect

RESILIENT NAVIGATION. MISSION SUSTAINED.

Most military platforms depend on satellite technology for accurate positioning, timing and communications. Therefore, jamming of global navigation satellite systems (GNSS) signals can result in mission failure.

To mitigate the jamming of GNSS signals, SIGN4L has developed a compact and affordable anti-jam system suitable for airborne, surface, and munitions applications.

GPS-Protect protects GNSS receivers from interference and jamming, ensuring the satellite signals required to compute precise position remain available and enabling continuous operation in a jammed environment.

GPS-Protect uses advanced digital signal processing techniques to provide high levels of multi-band jamming exemption, even in dynamic multi-jammer scenarios.

SPECIFICATIONS

Use case:

- UAV, aircraft, vehicles, ships, and guided weapons

Production:

GPS-Protect uses the latest digital signal processing and array antenna technology to effectively protect user's GPS receivers from powerful jamming signals. GPS-Protect provides users with the following benefits.

- Designed for countering NB(Narrow Band), BB(Broadband) jammers
- Works with legacy GPS receivers
- Easy installation

Parameter	Values
GNSS Protection	GPS L1
Single jammer	Up to 105 dB JSR
Several jammers (up to three)	NB: Up to 95 – 105 dB JSR
	BB: Up to 65 ~ 85 dB JSR
Number of RF out channels	4
Number of antenna array elements	4
Power consumption	20 W
Weight	1.7 kg
Operating temperature	-40°C ~ +65°C