

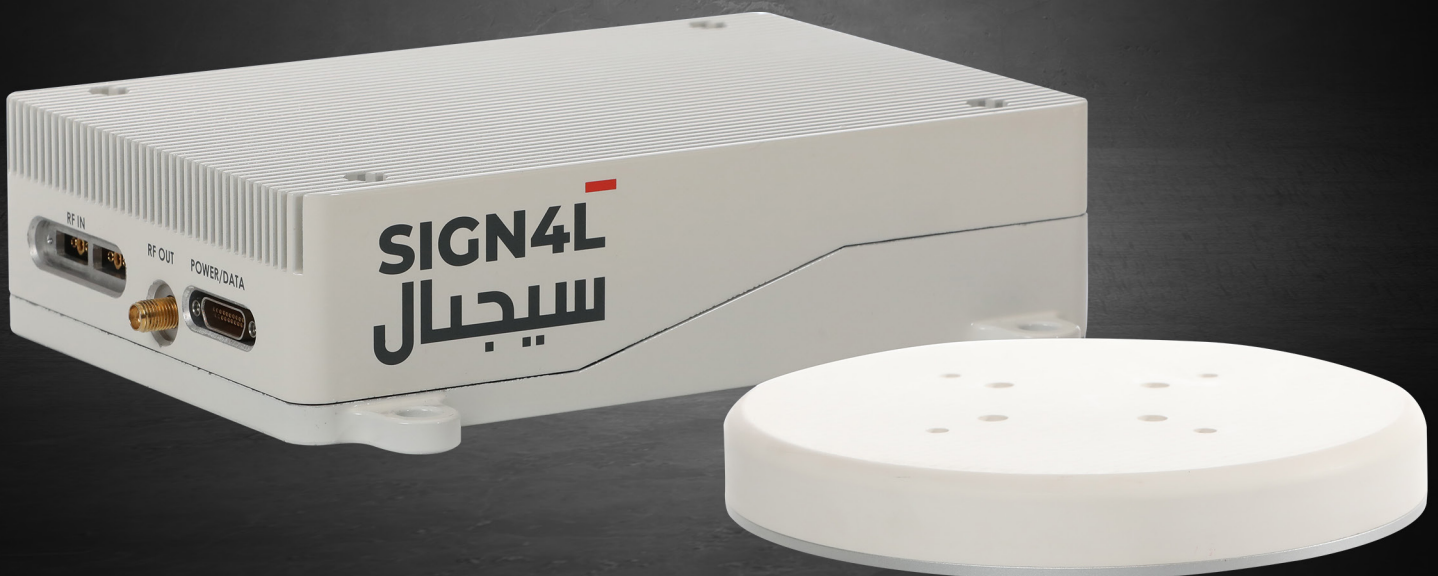
SIGN4L



GPS-PROTECT

RESILIENT NAVIGATION. SUCCESSFUL MISSION.

Robust protection against GNSS-based
interference and jamming



KEEP YOUR MISSION ON TARGET AND ON COURSE

Incorporating the latest digital signal processing and array antenna technologies, GPS-PROTECT shields global navigation satellite system (GNSS) receivers from interference and jamming to ensure the continuous availability of satellite signals required for precision computation of position and timing.

Designed and developed by SIGN4L in the UAE, GPS-PROTECT delivers continuous, high-level, multi-band jamming protection for airborne, marine, surface, and guided weapons applications, even in dynamic multi-jammer scenarios.





PLATFORM AGNOSTIC

- Unmanned aerial vehicles
- Guided weapons
- Aircraft
- Ground vehicles
- Marine vessels

STATE-OF-THE-ART TECHNOLOGY

GPS-PROTECT uses the latest digital signal processing and array antenna technology to effectively protect users` GPS receivers from powerful jamming signals.

USE CASE

- UAV
- Aircraft
- Vehicles
- Ships
- Guided weapons

KEY FEATURES

- Designed for countering Narrow Band (NB) and Broadband (BB) jammers
- Anti-Jamming module provided as fully enclosed system of Printed Circuit Board (PCB)
- Antenna enclosure customised to best fit specific platforms
- Works with legacy GPS receivers
- Easy installation



FOR MISSION SUCCESS, SHIELD YOUR SYSTEMS

Most military platforms depend on satellite technology to achieve their mission goals, giving rise to a plethora of GNSS jamming and spoofing technologies that can cause even the most carefully planned missions to fail.

To mitigate the jamming of GNSS signals, SIGN4L's compact and affordable anti-jammer system can be configured for deployment on unmanned vehicles, ships, ground vehicles, both fixed and rotary-wing manned.

USE CASE: GPS-GUIDED MISSILE

A pilot launches a GNSS-guided missile targeting a strategic bridge. Although intelligence indicates that the infrastructure is protected by a GNSS jammer located adjacent to the bridge, the pilot's systems are equipped with GPS-PROTECT, which ensures the continuous availability of GNSS signals to both aircraft and guided missile – rendering the enemy GNSS jammer ineffective.

With GNSS guidance maintained, the guided missile hits the target, destroys the bridge, and accomplishes the mission to hamper enemy movement across this terrain.



SPECIFICATIONS

PARAMETER	VALUES
GNSS protection	GPS L1 and L2
Single jammer	Up to 105 dB JSR
Several jammers (up to three)	NB: Up to 100 dB JSR BB: Up to 90 dB JSR
Number of RF-out channels	1
Number of antenna array elements	4
Power consumption	23 W
Weight	1.7 KG
Operating temperature	-40°C ~ +70°C



ABOUT SIGN4L

Electronic warfare (EW) systems have become an essential element of the modern battlefield, and SIGN4L is pioneering advanced technologies to secure the electromagnetic spectrum and is developing disruptive solutions to outpace adversaries.

Based in Abu Dhabi, SIGN4L is the leading provider of EW solutions in the UAE and one of only a few in the region with such capabilities.

SIGN4L is part of the Electronic Warfare & Cyber Technologies cluster at EDGE Group.

OUR CAPABILITIES



Electronic deception
and concealment



Electronic
Protection



Signal and
Communication
Intelligence



Electronic Support
Measures



Intelligence, Surveillance,
Target Acquisition and
Reconnaissance (ISTAR)
sensors



ABOUT EDGE

We live in an accelerating world. Characterised by uncharted frontiers, the future is empowered by advanced technology that is galvanising a new breed of players. At the edge of these frontiers exist no limits – where boundless opportunities await.

Transforming how we live, and ensuring a more secure future, is what we do. We are EDGE; and our mission is simple. To disrupt complacency. To move with speed. And to counter threats.

We will not only revolutionise the defence industry, but we will change its fundamentals. We are the vanguard of the next-generation, of a reimagined sector. We prioritise technology in a non-binary world and seek universal solutions. We work with everyone: big or small, start-up or established, local or global.

We are EDGE. We enable a secure future.

SIGN4L

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