

Navigation Resiliency for Loitering Munitions

Modern tactical loitering munitions rely on continuous, accurate GNSS data for mission success. In contested EW environments, GNSS jamming causes more than just navigation errors, it leads to mission failure and platform loss.



- 01 Continuous GNSS Dependency:**
Required for mid-course navigation and target area loitering.
- 02 Terminal Phase Sensitivity**
Jamming during the final dive/attack phase directly impacts lethality and precision.
- 03 Limited In-Flight Correction:**
Once GNSS is lost, tactical platforms often lack the high-end IMUs needed to maintain accuracy.

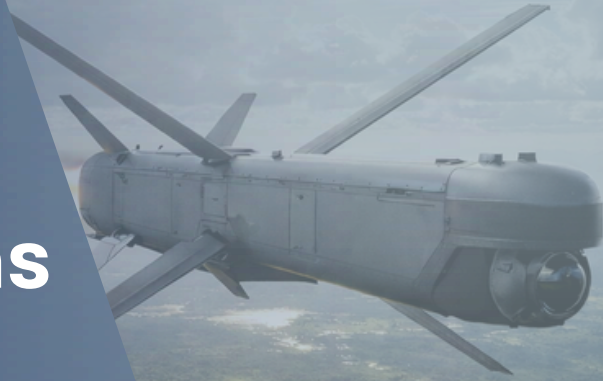
GPSdome-SunStone

GPSdome-SunStone is a compact, software-defined module designed to protect tactical loitering munitions from GNSS interference. Utilizing 2 element null steering technology, it secures navigation continuity by mitigating one jamming direction. It features a low latency of approximately 100ns and is highly flexible, allowing customers to protect one or two GNSS bands from a selection of L1/E1, L2, L5, or GLONASS G1.

Optimized for strict platform constraints, the module weighs 180g (with an OEM version under 80g) and consumes only 2.7W on average. Beyond resiliency, it delivers real time jamming intelligence via UART, providing critical data on jammer frequency and power to enhance situational awareness.



GNSS Jamming in Loitering Munitions



Aura

Aura is a high end null steering solution designed to maintain navigation continuity for loitering munitions in complex, multi jammer environments. It provides advanced protection by mitigating multi frequency jamming from up to three directions per protected band. The system is available in flexible dual band configurations, including L1/E1+L2, L1/E1+L5, or GLONASS G1.

Engineered for platforms requiring maximum resilience, Aura weighs 500g in its enclosed format and 375g as an OEM version. It features a low latency of approximately 100ns, ensuring the high speed precision required for autonomous flight and terminal mission execution. Like the SunStone, Aura delivers real time interference intelligence via UART, enabling threat enhanced situational awareness during the mission.



*Available also in OEM format

	Weight	# of Jamming Directions Protected	
SunStone	180g	1	Dual Band*
Aura	500g	3	Dual Band*

*GPS L1/E1 + L2
OR
GPS L1/E1 + L5
OR
GPS L1/GLONASS G1

For other configurations please contact our sales team