infiniDome
NAVIGATION RESILIENCY

Navigation Resiliency for Ground Vehicles

The Critical Need for Resilient PNT Modern ground operations require continuous, precise GNSS for situational awareness, fleet navigation, and Blue Force Tracking. In contested environments, jamming causes operational blindness, leading to C2 loss, navigation errors, and increased risk to personnel.

01 **Continuous Operational Dependency**
Ground platforms require persistent GNSS for synchronized timing and logistical coordination.

02 **Proliferation of Low-Cost Jammers**
GNSS jamming is increasingly accessible using low-cost, commercially available jamming devices that can easily disrupt civilian-grade GNSS receivers.

03 **Retrofit Requirements:**
Tactical vehicles often require solutions that can be quickly integrated without major hardware overhauls.

GPSdome-SunStone

GPSdome-SunStone is a compact, software defined module designed to ensure GNSS continuity for tactical ground vehicles operating in contested environments. Utilizing 2-element null steering technology, it secures navigation by mitigating interference from one jamming direction. The system is highly flexible, allowing operators to protect one or two GNSS bands from a selection of L1/E1, L2, L5, or GLONASS G1.

Optimized for the rugged constraints of land platforms, the module weighs 180g (with an OEM version under 80g) and maintains an exceptionally low average power consumption of 2.7W. Beyond resiliency, it delivers real-time jamming intelligence via UART, providing critical data on jammer frequency and power to enhance situational awareness for the entire fleet.

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Aura

*Available also in OEM format

Aura is a high end null steering solution designed to maintain navigation continuity for tactical ground vehicles and command platforms 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 heavy 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 precision timing and positioning required for synchronized fleet operations and autonomous ground navigation. Like the SunStone, Aura delivers real-time interference intelligence via UART, enabling real-time threat-enhanced situational awareness for the entire convoy.

	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

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