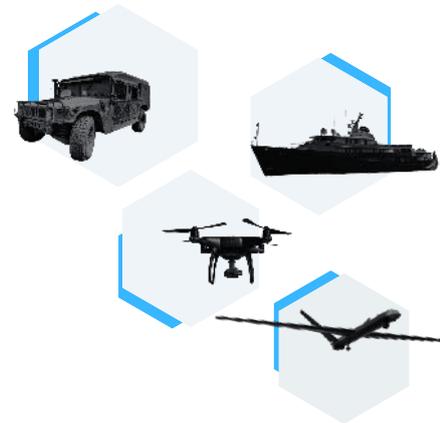




GPSdome-SunStone

The industry's most disruptive, future-proof, GNSS Anti Jamming Solution

GPSdome-SunStone is a robust, small-sized, add-on module designed to ensure continuity of navigation and autonomous or safety of life operations during GNSS interference conditions. With advanced and upgradeable protection, detection and monitoring capabilities, this system effectively safeguards against current and future threats to GNSS. No other solution that offers such protection is as small, light, affordable, or as easily installed as GPSdome-SunStone.



Unique advantages

Combat proven

Fully SW-defined and upgradeable

Fully retrofit

Best-in-class C-SWaP



Aura



LightHouse



SunStone



Resilient Navigation System



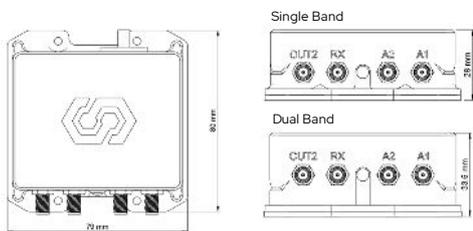
R-Navigation AIO

Product Specifications

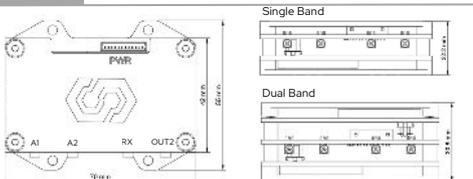
Product Dimensions				Performance			Safety & Compliance		
Version	Type	Weight	Size mm	Protected Frequency	L1 and E1/L2/L5/G1		FCC Compliant		
OEM	Single Band	80g	76x55x22.2		optional	L1 and E1/L2/L5/G1		CE Compliant	
	Dual Band	100g	76x55x30.8	Passthrough	optional	choose 2 out of - L1 and E1/L2/L5/G1		RoHS Compliant	
Enclosed	Single Band	180g	80x78.5x28	Latency	100ns ±15ns fixed		LED Indicator		
	Dual Band	200g	80x78.5x33.5	Compression Point	-23dBm		Flashing Red	System Initialization	
Wiring				Path Gain	+/-3dB		Flashing Green	Jamming Not detected	
Power Supply 6-32VDC 2.7W	Red	Positive (+)		RF Interfaces			Flashing Green/Orange	Jamming detected	
	Black	GND (-)		Connector	Description		Red	System Error	
Dry Contacts Jamming indication Max 32V 50mA	Purple	Positive		Antennas Input	A1,A2	50Ω SMA 2,7-14VDC Max 40mA 15-40 dB gain	Environmental		
	Green	Negative			RX/RX1	50Ω SMA		Operating Temperature	-40°C to 71°C
UART for Maintenance	Gray	UART RX		Receiver Output	RX2/OUT2	50Ω SMA Not protected For secondary receiver / heading calculations	Waterproof Rating	Enclosed	IP65
	Yellow	UART TX			RF Connectors Type			OEM	NO
	White	VCC 5v+		Enclosed	SMA Female		Mounting		
	Blue	GND		OEM	MMCX Female		4 x M3 screw (not supplied)		

Product Dimensions

Enclosed



OEM



Ordering Information

GPSdome-SunStone — X X — X — X X — X

Protected frequency: 0 - null 1 - GPS L1/GALILEO E1 2 - GPS L2 3 - GPS L5 4 - GLONASS G1	Enclosed/OEM E - Enclosed O - OEM	Passthrough frequency: 0 - null 1 - GPS L1/GALILEO E1 2 - GPS L2 3 - GPS L5 4 - GLONASS G1	Direct Path Second Receiver 1 - Yes 2 - No
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Key Features

- Software-defined, upgradeable anti jamming algorithms
- Compatible with modern and legacy GNSS receivers, including m-code and SAASM
- 1 or 2 protected GNSS bands (L1&E1/L2/L5/G1 - chosen by customer when ordered)
- Passes through (unprotected) two additional GNSS bands (chosen by customer when ordered)
- Average power consumption < 2.7W
- Cost, Size, Weight and Power optimized for UAS
- Ideal for time-sensitive applications with a minimal and constant group delay
- Intelligence gathering capabilities enhancing situational awareness via UART - allows for real-time threat heat map creation:
 - Frequency band of the jammer detected
 - Max power of the jammer detected



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