



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

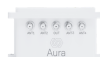
Fully SW-defined and upgradeable

Fully retrofit

Best-in-class C-SWaP



IroNav



Aura



LightHouse



SunStone



Resilient Navigation System



R-Navigation AIO

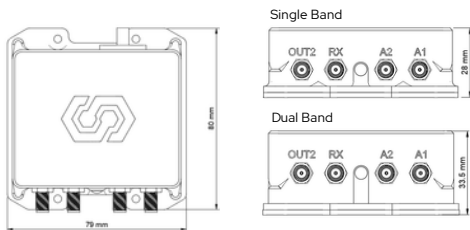
Product Specifications

Product Dimensions				Performance			Safety & Compliance		
Version	Type	Weight	Size mm	Protected Frequency	L1 and E1/L2/L5/G1		CE (Enclosed version)	FCC	RoHS
OEM	Single Band	80g	76x55x22.2	Passthrough	optional	L1 and E1/L2/L5/G1	Power Consumption		
	Dual Band	100g	76x55x30.8		optional	choose 2 out of: L1 +E1/L2/L5/G1		Nominal	Peak
Enclosed	Single Band	180g	80x78.5x28	Latency	100ns ±15ns fixed		Single Band	2.7W	3W
	Dual Band	200g	80x78.5x33.5	Compression Point	-23dBm		Dual Band	5W	5.5W
Wiring				Path Gain	+/-3dB		Power Supply	6-32VDC	
Main Power input		Red	Positive (+)	RF Interfaces			LED Indicator		
		Black	GND (-)	Connector		Description	Flashing Red		System Initialization
Dry Contacts Jamming indication Max 32V 50mA		Purple	Positive	Antennas Input	A1,A2	50Ω SMA 2.7-14VDC Max 40mA 15-40 dB gain	Flashing Green		No Jamming
		Green	Negative	Receiver Output	RX/RX1	50Ω SMA	Flashing Green/Orange	Jamming detected	
UART for Maintenance		Gray	UART RX		RX2/OUT2	Optional: 50Ω SMA Not protected for aux receiver		Flashing Orange	Heavy Jamming detected
		Yellow	UART TX	RF Connectors Type			Red	System Error	
		White	VCC 5v+	Enclosed	SMA Female		Environmental		
		Blue	GND	OEM	*MMCX Female		Operating Temperature	-40°C to 71°C	
Shield Wire		Yellow Green	Shield	Mounting			Waterproof Rating	Enclosed	IP65
				4 x M3 screw (not supplied)				OEM	NO

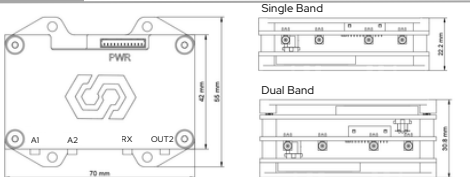
*OEM also available with SMA connectors

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

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



infiniDome Solutions

Tel: +1 (917)694-4642 • info@infinidome.com • www.infinidome.com

119 West 72nd Street, Suit 343, New York, NY 10023, USA