

# GPSdome-SunStone

## DATASHEET

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.

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

### Unique advantages

- Combat proven (thousands of hours in highly challenged environments)
- Fully retrofit with any receiver and any active antennas
- Future proof: Fully SW-defined and upgradeable
- Best-in-class C-SWaP



OEM version



### 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



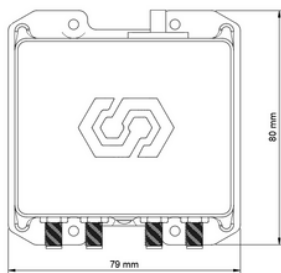
**Small • Simple • Flexible • Retrofit**

# Product Specifications

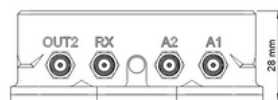
Product Dimensions				Performance			Safety & Compliance		
Version	Type	Weight	Size mm	Protected Frequency	L1 and E1/L2/L5/G1		FCC Compliant		
OEM	Single Band	80g	76x55x22.2		Passthrough	optional	L1 and E1/L2/L5/G1	CE Compliant	
	Dual Band	100g	76x55x30.8	optional		choose 2 out of - L1 and E1/L2/L5/G1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

## Product Dimensions

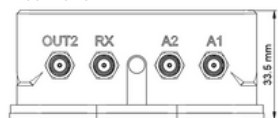
Enclosed



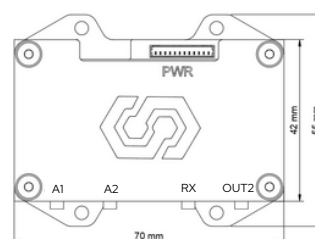
Single Band



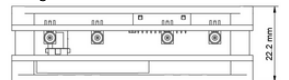
Dual Band



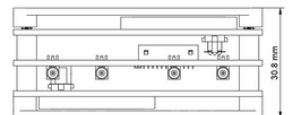
OEM



Single Band



Dual Band



## Ordering Information

GPSdome-SunStone — 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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