

# 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

### **Key Features**

- SW-defined, upgradeable anti jamming algorithms
- Fully retrofit and compatible with most GNSS receivers and active antennas
- Protected GNSS band (per client order)
- Passes through (unprotected) two additional GNSS bands (per client order)
- Average power consumption < 1W</li>
- Peak power consumption: < 2.7W
- Cost, Size, Weight and Power optimized for UAS
- Ideal for time-sensitive applications with a minimal constant group delay
- Intelligence gathering capabilities in the battlefield (reported in real time via data output):
  - Frequency band of the jammer detected
  - Max power of the jammer detected

Small · Simple · Flexible · Retrofit



## **Product Specifications**

PRODU	JCT DIN	MENSIONS*	
Enclosed	80mmx79mmx28mm		
	100g		
	4 x M3 screw (not supplied)		
*For protection of two frequencies housing will be 80mmx70mmx37mm			
OEM	42mmx70mmx16.2mm		
	50g		
*For protection of two frequencies housing will be 42mmX70mmX25mm			
L	ED Indi	cator	
Constant Red		System Error	
Flashing Red		System Initialization	
Constant Green		System Operating no jamming detected	
Alternating Between Orange and Green		System Operating (jamming detected)	

Performance			
Protected Frequency		One frequency band	
Optional Secondary Protected Frequency		One frequency band	
Passthrough		2 GNSS Frequency Bands	
Latency		100ns ±15ns (fixed)	
Compression Point		-23dBm	
Path Gain		+/-3dB	
RF Interfaces*			
Antenna Connectors (A1/A2)	50Ω SMA 2.7VDC - 14VDC (Max Current 40 Miliamps per connector), designed for 15dB -40dB gain		
Receiver Connector (RX)	50Ω SMA		
Out2	50Ω SMA Direct path to secondary receiver		
*OEM Solution uses MMCX connector			
*To be used for heading calculations			

Safety & Compliance				
FCC Compliant				
CE Compliant				
RoHS Compliant				
Wire Connection				
Description				
Power supply positive terminal (6vdc-32vdc)				
Power supply negative terminal				
Dry contact jamming indication – positive terminal				
Dry contact –jamming indication – negative terminal				
UART RX UART TX UART GND				
Environmental*				
Operating Temperature Range	-40°C to 71°C			
Waterproof Rating	IP65			
*OEM solution does not meet any IP rating				

# Product Dimensions Not Final

### **Ordering Information**



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

4 - GLONASS G1

3 - GPS L5

**Direct Path Second Receiver**1 - Yes
2 - No



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