

Industry's Only Dual-use GPS Anti-Jammer

The infiniDome OEM Board is a small-sized, add-on board that provides protection against GPS jamming, ensuring continuity of autonomous navigation and operation during jamming conditions. No other commercial solution offering such protection is as small, light, affordable or as easily integrated as our OEM Board.

Features

- Null steering technology
- Dual board solution, minimal form factor:
 - X72: 40x40mm, 22g
 - AD7200: 40x20mm, 11g
 - Cables: 19g
- Max power consumption: <0.8W
- Environmental: -40°C to +85°C
- Protected frequency: GPS L1 (C/A Code)
- **Passthrough frequencies: GPS L2 & Glonass R1**
- Latency: 100ns ± 15ns (fixed)
- Insertion loss: ±3dB



How the OEM Board Works

The Vulnerability of GNSS is well known. Orbiting at 20,000km, the GNSS satellites emit a signal which is incredibly weak when received by GNSS receivers (~-125dBm). To jam or spoof this signal all one must do is overpower it, either with a simple jammer bought online which blocks it completely or with a spoofer, a slightly more sophisticated signal which can trick it with erroneous data.

The Null Steering Algorithm was originally developed for military applications to protect wireless signals. The infiniDome OEM Board adds our own sophisticated algorithms and proprietary RFIC to detect suspicious signals, combine antenna patterns and precisely target a null in the direction of the hostile signal.

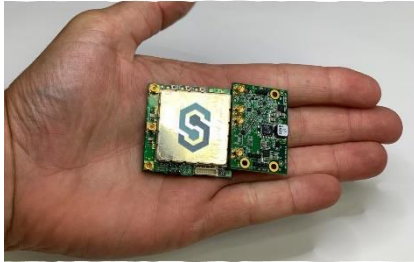
Ideal for Any Application: Fully integrates into the flight controller of drones, telematics unit for fleets, and inside the time server for critical infrastructure as a light-weight, compact yet extremely powerful anti-jamming solution delivering infinite signal protection.

The OEM Board is Compatible with any GNSS receiver on the market and compatible with any off-the-shelf GNSS antennas with minor integration efforts. The OEM Board does not include the GNSS receiver or the antennas.

Jamming Detection Alert is available from the OEM Board via an external wire that could be integrated into any system computer. An optional CommModule could be added to enable attack alerts to be sent to infiniCloud, infiniDome's GPS Security Cloud.

Specification Summary

Dimensions



Physical		Performance	
Dimensions: X72 AD7200	40 x 40 mm 40 x 20 mm	Protected Signal	1575.42 MHz (GPS L1 C/A Code)
Weight: X72 AD7200 Cables	22g 11g 19g	Passthrough additional 2 GNSS signals	GPS L2 & Glonass R1
Mounting	4 x M3 bolts (not supplied)	Latency	100ns ±15ns (fixed)
		Compression Point	25 dBm
		Insertion Loss	±3dB
Environmental		Safety & Compliance	
Operating Temperature Range	-40°C to 85°C	R&TTE 1999/5/EC : EN60950-1, EN301 489-1, EN301 489-3, EN300 440-2	
RF Interfaces		RoHS compliant	CE Compliant (PPS Version)
Antenna Connectors (P/A)	50Ω SMA 2.75VDC designed for 26dB ±2dB gain	WEEE registration number WEE/GK2929WW	
Receiver Connector (R)	50Ω SMA Requires *3.3VDC – 32VDC 0.8W *not for EPS option	EPS Product Wire Connection Description	
		Red Wire	3.3VDC – 32VDC
		Black Wire	GND
		Brown & White	Dry contact NO interference indication
Ordering Information			
Product Name	Product Number	Description	
OEM Board 1.03	1023	GPS L1 Protection, R1 & L2 Passthrough. External Power & Interference Indication Over 3 Wire Cable. Loss Compensation.	

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