



GPSdome-Aura

The New Standard in GNSS Anti-Jamming in enclosed and OEM formats

Aura provides advanced protection against GNSS jamming, ensuring resilient and uninterrupted navigation in contested environments. Designed for seamless integration in enclosed or OEM configurations, it delivers dual-band, multi-source protection against multiple simultaneous threats, maintaining reliable positioning, navigation, and timing (PNT) when it matters most.



Unique advantages



Two Powerful Formats



Optimized Hardware



Upgraded Algorithms



IroNav



Aura



LightHouse



SunStone



Resilient Navigation System



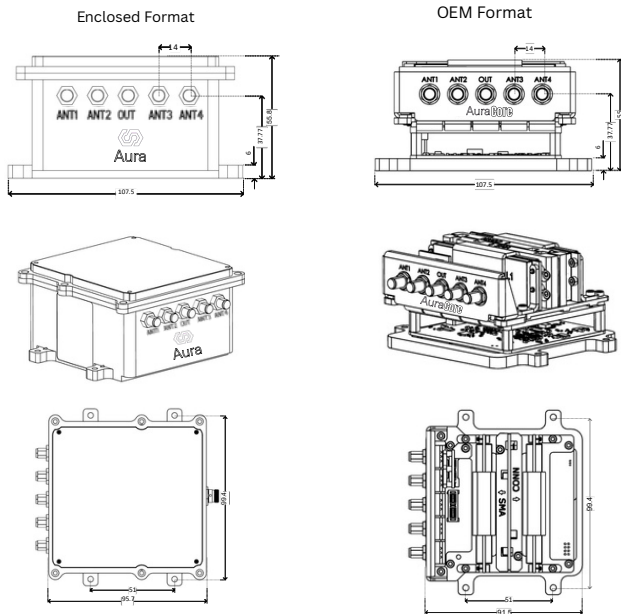
R-Navigation AIO

Product Specifications

Physical			Performance		Environmental	
Version	Weight	Size	Protected Signal	L1/E1 + L2 L1/E1 + G1	Operating Temperature Range	-40°C to 71°C
OEM	375g	1075 x 91.5 x 55 mm	Latency	~100ns	Waterproof Rating	IP65 *Enclosed version
	13.2 oz	4.25 x 3.60 x 2.15 in	Compression Point	P1dB -25dBm		
Enclosed	500 g	1075 x 95.7 x 55.8 mm	Insertion Loss	6dB	Safety & Compliance	
	17.64 oz	4.23 x 3.77 x 2.20 in	Power Requirements		RoHS Compliant	
LED Indication			Operating voltage	6 - 32 VDC	FCC Compliant	
Constant Red	System Error		Power Consumption	Nominal 9W Peak 16W	CE Compliant	
Flashing Red	System Initialization		EPS Product Wiring		Optional Connector	
Constant Green	System Operating (no jamming detected)		PSU positive terminal	Red	Pin 5	
Flashing Orange and Green	System Operating (jamming detected)		PSU Negative terminal	Black	Pin 9	
			Dry contact (+) jamming indication	Purple	Pin 4	
		Dry contact (-) jamming indication	Green	Pin 2		
		UART RX	Orange	Pin 7		
		UART TX	Yellow	Pin 8		
		UART GND	Blue	Pin 6		
RF Interfaces						
Antennas	50Ω 2.5-12 VDC Active antenna Gain 26-32dB					
RF connectors	SMA 50Ω *OEM also available with MMCX, weighing 25 grams less.					

*UART for diagnostics | No built-in GNSS receiver

Product Dimensions



Key Features

- C-SWaP optimized null-steering module
- Supports 2-4 antennas with up to 3 nulls per band
- Low power: <9W average, <16W peak
- Retrofit plug-and-play integration
- Protected frequencies (either):
GPS L1/Galileo E1 + GPS L2
GPS L1/Galileo E1 + GLONASS G1
- Passthrough (unprotected):
GPS L2 / L5 / GLONASS G1
- Real-time interference intelligence via UART (threat heat-map support)
- Compatible with most active GNSS antennas
- Optimal antenna spacing: >10 cm

Ordering Information

Aura — X X — X — X X		
Protected frequency: 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

*Must differ from protected frequencies in A



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