



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



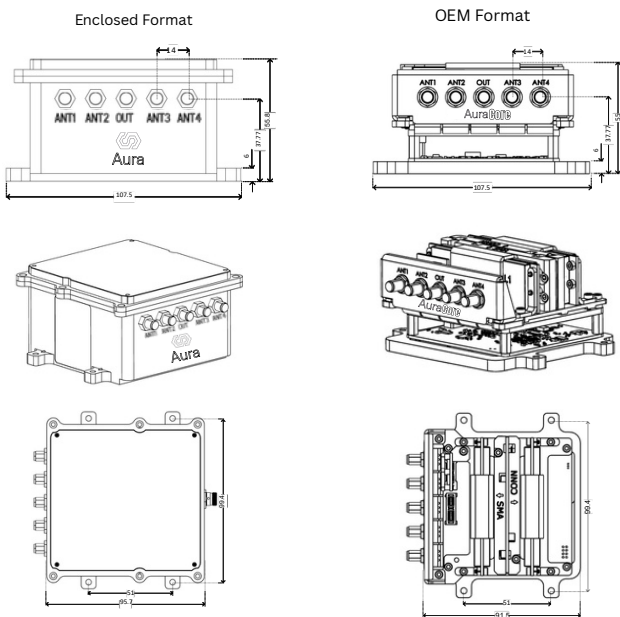
R-Navigation AIO

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	107.5 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	107.5 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		FCC Compliant		
Constant Red	System Error		6 - 32 VDC		CE Compliant		
Flashing Red	System Initialization		Power Consumption		Nominal 9W Peak 16W		
Constant Green	System Operating (no jamming detected)		EPS Product Wiring				
Flashing Orange and Green	System Operating (jamming detected)		PSU positive terminal	Red	Pin 5		
	RF Interfaces		PSU Negative terminal	Black	Pin 9		
Antennas	50Ω 2.5-5 VDC Active antenna Gain 26-32dB		Dry contact (+) jamming indication	Purple	Pin 4		
RF connectors	SMA 50Ω *OEM also available with MMCX, weighing 25 grams less.		Dry contact (-) jamming indication	Green	Pin 2		
			UART RX	Orange	Pin 7		
			UART TX	Yellow	Pin 8		
			UART GND	Blue	Pin 6		
Optional Connector MR11WS06 0210 BK1 E1AP 1							

*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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