



### Features

- Small form factor: <math>99 \times 95 \times 56\text{mm}</math>, 500g
- Supporting 2-4 elements (antennas)
- Up to 3 null attenuation in each frequency (number of antennas -1)
- Null steering technology in minimal package
- Average power consumption <math>< 9\text{W}</math>
- Peak power consumption: <math>< 16\text{W}</math>
- IP65, <math>-40^{\circ}\text{C}</math> to <math>+71^{\circ}\text{C}</math>
- Protected frequencies (either):
  - GPS L1 + GPS L2
  - GPS L1 + GLONASS G1
- Latency: ~100ns (constant)
- Insertion loss: 6dB
- Intel gathering capabilities
- Compatible with most off-the-shelf active GNSS antennas
- Freely deployed anywhere on the platform (>10cm apart)

### GPSdome2M: GNSS Multi-Band 4-Element Anti-Jammer

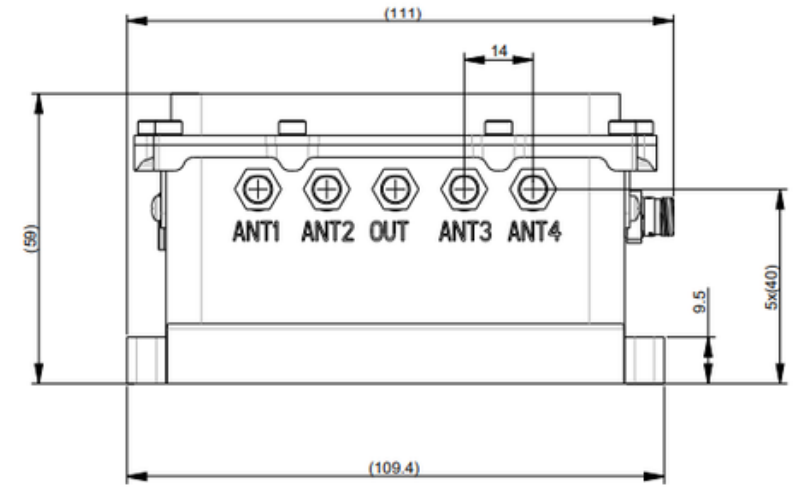
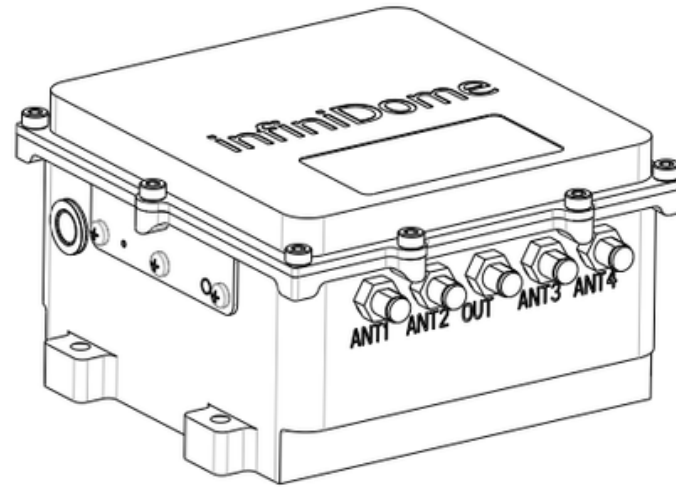
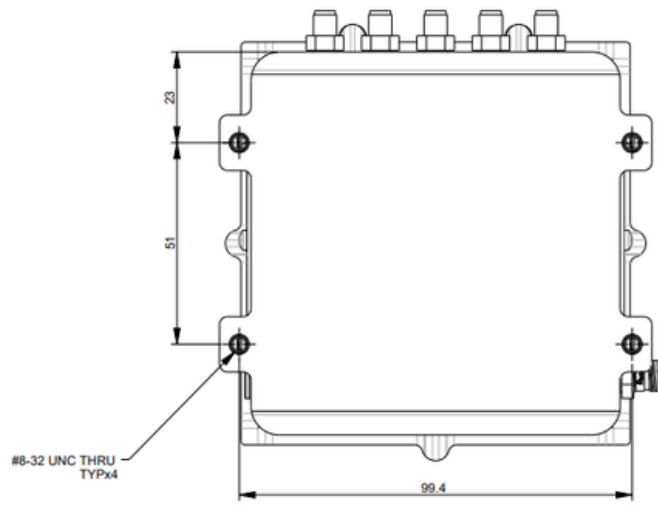


GPSdome2M provides protection against GPS jamming, ensuring continuity of autonomous navigation and operation during jamming conditions. No other solution that offers such protection is as small, light, affordable, retrofit or as easily installed as GPSdome2M.

**Small • Simple • Flexible • Retrofit**



### Product Dimensions



### Product Specifications

Enclosed	
<b>Dimensions</b>	99.4 x 95.7 x 56mm, (excluding mounting legs)
<b>Weight</b>	500g
<b>Mounting</b>	4 x 8-32UMC bolts (not supplied)

Environmental	
<b>Operating Temperature Range</b>	-40°C to 71°C
<b>Waterproof Rating</b>	IP65

Optional Connector MR11WS06 0210 BK1 E1AP 1	
<b>5VDC - 32VDC</b>	Pin 5
<b>GND</b>	Pin 9
<b>Dry contact</b>	Dry contact - pin 2 Dry contact + 4
<b>UART (3.3V)</b>	RX Pin 7 TX Pin 8 GND Pin 6

RF Interfaces	
<b>Antenna Connectors</b>	50Ω SMA 2.5VDC-5VDC (Active antenna with gain range between 26dB to 32dB)
<b>Receiver Connector (R)</b>	50Ω SMA

Performance	
<b>Protected Signal</b>	L1+G1 or L1+L2
<b>Latency</b>	~100ns
<b>Compression Point</b>	P1dB -25dBm
<b>Insertion Loss</b>	6dB

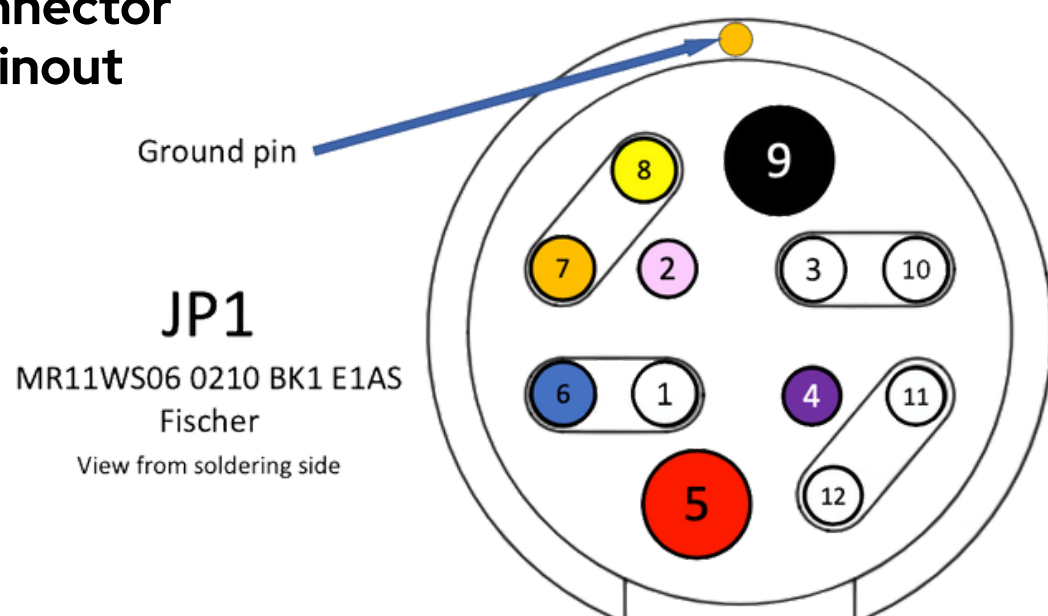
EPS Product Wire	
<b>5VDC - 32VDC</b>	Red
<b>GND</b>	Black
<b>Dry contact (2 wires)</b>	Dry Contact + Yellow Dry contact - White
<b>UART (3.3V)</b>	RX Blue TX Brown GND Black

Safety & Compliance	
<b>RoHS Compliant</b>	
<b>CE Compliant</b>	
<b>FCC Compliant</b>	
<b>UKCA Compliant</b>	

MIL-STD	
<b>MIL-STD-810G</b>	chg1, Method 501.6 and 502.6, Procedure I and II and as shown herein: (-40°C to +71°C), Method 514.7 Category 7 Table 514.7Cvi- General exposure, method 516.6 procedure I, II, III
<b>MIL-STD-810H</b>	Method 514.8 Category 4, Figure 514.8C-3, Table 514.8C-II in all axes, Figure 514.8 C-7
<b>MIL-STD-461F/G</b>	TBD

LED Indication	
<b>Constant Red</b>	System Error
<b>Flashing Red</b>	System Initialization
<b>Constant Green</b>	System Operating (no jamming detected)
<b>Alternating Between Orange and Green</b>	System Operating (jamming detected)

#### Connector Pinout



### Ordering Information

GPSdome2M — X X — X — X X — X

<b>Protected frequency:</b> 1 - GPS L1 2 - GPS L2 3 - GPS L5 4 - GLONASS G1 5 - Galileo E1	<b>Connector/Cable</b> C - connector E - external cable	<b>Passthrough frequency (optional):</b> 0 - none 1 - GPS L1 2 - GPS L2 3 - GPS L5 4 - GLONASS G1	<b>Receiver (optional)</b> 1 - u-blox M8N 2 - u-blox F9P
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