

Trident Sensors' Dual Element Active GPS & Passive Iridium Antenna



Features

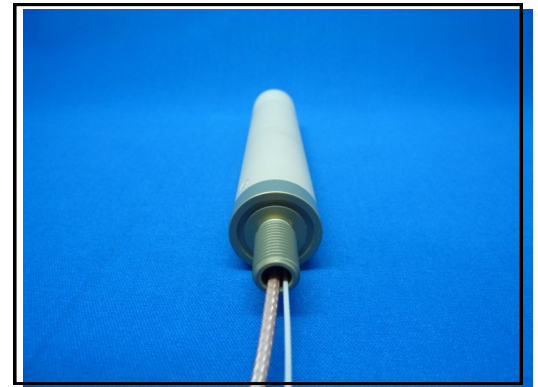
- Pressure rated to 6,000 m
- Active GPS & Passive Iridium antenna elements
- Dual cables & connectors for GPS & Iridium
- Rapid position acquisition at the sea-surface
- Small, light-weight, low drag
- Iridium element allows two-way data communications
- Various cable lengths available with a choice of GPS & Iridium connectors

Feed-through Connection

- For antenna mounting directly onto pressure housing
- 7/16" UNF thread

Applications

- AUVs
- ROVs
- Drifters
- Profiling floats
- Manned submersibles
- Location & recovery
- Mission data transmission
- Command & control



150 mm Dual Element Active GPS & Passive Iridium Antenna with Separate Cables & Connectors for GPS & Iridium

	Active GPS	Passive Iridium
Type	Quadrifilar Helix	Octafilar Helix
Frequency	1573.42-1577.42 MHz	1616-1626 MHz
Polarization	Right-hand circular	Right-hand circular
Voltage	2.8 to 3.6 V	
Current	13 mA	
Gain	+24 dBic	+2.0 dBic @zenith
Beamwidth	135 Degrees	>120 Degrees
Bandwidth	20 MHz	(1 dB) 15 MHz
Axial Ratio	<2.0 @Zenith	<1.5 @Zenith
VSWR	<2.0:1	<2.0:1
Impedance	50	50
Temperature	-40 to +85 °C	-40 to +85 °C



Dual Element Active GPS & Passive Iridium Mounted Directly onto Pressure Housing

	Active GPS & Passive Iridium
Length (excl. thread)	150 mm
Diameter (housing)	25 mm
Thread Length	19 mm
Thread	7/16" - 20 UNF
Weight*	~130 g
Face-seal O-ring	BS017 (17.17 id x 1.78 mm section)
Cable*	Hirose U.FL Coax / RG-316
GPS/Iridium Connector*	MCX, SMA, U.FL Plug

* Approximate values as customers' requirements vary. Please specify desired cable length & connectors. Other connectors may be available.

