Poseidon is a multi-frequency subsea GNSS antenna that is designed for use on underwater vehicles that require the ability to obtain a GNSS fix when surfaced.

The antenna is also suitable for marine vessels that are exposed to harsh conditions that are too extreme for a normal GPS antenna.

The antenna is capable of receiving L-Band corrections to provide accurate positioning at sea.

The antenna is lightweight, compact, corrosion resistant and able to withstand depths of up to 3000 metres.

Poseidon is rated for depths of up to 3000 metres, allowing it to be permanently mounted on deep diving subsea vehicles.

Poseidon supports all of the current and future satellite navigation systems including GPS L1/L2, GLONASS G1/G2, GALILEO E1/E5, BeiDou B1/B2 and L-Band correction services.

Poseidon features a cutting edge RF design, allowing it to achieve high positioning performance under difficult sea conditions. It is able to reject high levels of interference and multipath.

Poseidon is one of the smallest, depth rated GNSS antennas on the market, featuring an integrated, compact and lightweight design.
### ANTENNA

- **Supported Navigation Systems**: GPS L1/L2/L5, GLONASS G1/G2/G3, GALILEO E1/E5, BeiDou B1/B2, L-Band corrections
- **Supported SBAS Systems**: WAAS, EGNOS, MSAS, QZSS
- **Antenna Element Gain**: 4 dBiC
- **Polarisation**: Right Hand Circular Polarisation
- **LNA Gain**: 28 dB
- **Out-of-band Rejection**:
  - < 1050 MHz: > 45 dB
  - < 1125 MHz: > 30 dB
  - > 1350 MHz: > 45 dB
  - < 1450 MHz: > 30 dB
  - > 1690 MHz: > 30 dB
  - > 1730 MHz: > 40 dB
- **Noise**: < 2 dB
- **Operating Voltage**: 2.5 to 16 V DC
- **Current Consumption**: 20 mA (typical), 25 mA (maximum)
- **ESD Protection**: 15 kV air discharge

### HADWARE

- **Dimensions**: 67 mm diameter x 23 mm
- **Cable Length**: 3 m
- **Operating Temperature**: -40 °C to 85 °C
- **Weight**: 320 grams
- **Housing Material**: 316 Stainless Steel
- **RoHS Compliant**: Yes
- **Shock**: Vertical 50 g, Horizontal 30 g
- **Maximum Pressure Rating**: 300 bar (3000 m)