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MiniPod 202/204G



Key features

- Robust GNSS receiver with integrated antenna
- Multi-band L1 + L2 + L5 receiver
- RTK Moving Base and Rover Operation
- Multi-constellation of positioning satellites
- External Sensor Integration
- Submersible, 1000m rated
- Wide area corrections or external RTCM
- Assembly shock rated to 75G for field endurance in harsh conditions
- Worldwide RF remote wireless data options
- Dual antenna positioning
- Heading information
- OmniDirectional wireless antenna

Applications

- Seismic streamer head and tail positioning
- Seismic source positioning
- Offshore construction
- Ideal for subsea excavation vehicles (jetting & trenching), and surface positioning of towed sensors such as magnetometers, operating in shallow waters
- Vehicle positioning when towing items offshore (e.g. cabling)

Overview

The 202G/204G MiniPod is a lightweight, ruggedised Tri-band GNSS receiver with configuration options. These allow for a RTK base, RTK rover and RTK moving base solutions to be used with more than one MiniPod in operation. Additional external sensor information can be added to the wireless protocol.

This enables the MiniPod to record precise GNSS positioning data remotely, including accurate dual axis inclination, temperature sensors, and information received from other data measurement devices.

Technical Specification

MODEL VARIANTS

Housing material	White Acetyl
Dimensions	Ø115mm x 170mm
Weight	1.95kg

Model Part Number	Dual Antenna GNSS	INS/AHRS (A Suffix)	EXT PPS (+ Suffix)	RF Standard Range*	External RF Antenna **(EXT Suffix)	Depth Rating
BCN-201G	Single antenna	N/A	Optional 16-Way Bulkhead	800m DIR	IP67 or 50m submersion external RF antenna option.	50m
BCN-203GA	Single antenna	N/A		800m DIR	N/A	1000m
BCN-202A	Dual antenna (a. Secondary antenna sold separately)	Optional		300m OMNI	N/A	50m
BCN-204G	Dual antenna (a. Secondary antenna sold separately)	Optional		300m OMNI	N/A	1000m

^{*} Dual antenna GNSS come configured standard with an omni directional antenna. A directional antenna is available instead.

Specifications of GNSS

GNSS SIGNALS

544 hardware channels for simultaneous tracking of most visible signals:

GPS: L1 C/A, L2C, L2 P(Y), L5

GLONASS: L1 C/A, L2C/A, L3, L2P

BeiDou: B11, B1C, B2a, B2I, B3I

• Galileo: E1, E5a, E5b

QZSS: L1 C/A, L2C, L5

NavIC: L5

SBAS: EGNOS, WAAS, GAGAN, MSAS, SDCM



^{**} External antenna options will have no internal antenna fitted inside.

POSITION ACCURACY {2,3}

	Vertical	Horizontal
Standalone	1.2m	1.9m
SBAS	0.6m	0.8m
DGNSS	0.4m	0.7m

POSITION ACCURACY {2,3}

Horizontal accuracy	0.6cm + 0.5ppm	
Vertical accuracy	lcm + ppm	
Initialisation	7s	

Septentrio's patented GNSS+ technologies

- AIM+ unique anti-jamming and monitoring system against narrow and wideband interference with spectrum analyser
- IONO+ advanced scintillation mitigation
- APME+ a posteriori multipath estimator for code and phase multipath mitigation
- LOCK+ superior tracking robustness under heavy mechanical shocks or vibrations
- RAIM+ (Receiver Autonomous Integrity Monitoring)

- Optional feature
- Open sky conditions
- RMS level
- Baseline <40km
- 5. 99.9%
- Including software compensation of sawtooth effect
- No information available (no almanac, no approximate position)
- Ephemeris and approximate position known





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