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MiniPod 101G, GPS receiver



The Modulus Technology MiniPod 101G is a lightweight ruggedised GPS receiver that is designed to survive 10m immersion.

The shock mounted robust dual L1 + L2 band GPS receiver has both wired and wireless applications, including providing streamer head and tail positioning and source positioning for 3D UHR seismic operations.

The interconnect flexibility of the MiniPod allows for RS232, RS485, 1PPS and wireless options to be configured. It is externally powered by default with an external battery, with internal power fail back up options available.

Key Features

- Robust GPS receiver with integrated L1 + L2 antenna
- Submersible, 10m rated.
- Wide area corrections or external RTCM
- Internal and external shock mounts
- Atlas correction option
- Worldwide RF remote options data, RTCM
- External battery option

Applications

- Seismic streamer head and tail positioning
- Seismic source positioning
- Ideal for subsea excavation vehicles (jetting & trenching), and surface positioning of towed sensors such as magnetometers, operating in shallow waters

Technical Specification

MODEL TYPE - PHYSICAL SPECIFICATION

Housing material: White Acetyl. Bracket A4 Stainless steel

	Survival Depth	Diameter	Length	Weight air/water
MiniPod	10m	115mm	170mm	1.95kg
101G				



MiniPod 101G specification continued...

SPECIFICATION

Configuration

Receiver type: GNSS L1 & L2, RTK with carrier phase. **GNSS** compatibility: GPS, GLONASS, BeiDou, QZSS & GALILEO

Channels: 394

SBAS tracking: 3 channel parallel tracking.

Differential Options: SBAS, Autonomous, External RTCM, RTK, L-Band (Atlas) DGPS

Horizontal Accuracy (2drms - 95%) Dependent on corrections:

RTK: 8MM + 1PPMAccuracies dependent on multipath environment,

WAAS: 0.3m number of satellites in view, geometry &

Unaided: 1.2m ionospheric conditions.

Atlas H10: 0.04m Atlas H30: 0.15m Atlas H100: 0.50m

Warm up time (Typical):

From cold: (No almanac or real time clock) <60s Warm start: <30s (Almanac & RTC, no position)

Hot start <10s

Connectivity

Connector: 8 pin MCBH connector (male)

Power: 18-36VDC

24v 350mA nominal

Communication: RS232 (2 Bi-directional Ports)

RS485 (1 Bi-directional Port, 1 RTCM Receive)

NMEA 0183 protocols supported Position Protocol: Refresh Rate: 1Hz standard, 10Hz, 20Hz optional

Correction I/O Protocol: Hemisphere GNSS proprietary, ROX Format, RTCM v2.3, RTCM v3.2, CMR,

CMR+

IPPS 5V, 1ms pulse width, 20mA optional

OPTIONS

100m or 1500m RF Modem with optional external antenna Internal power fail battery back up External battery



