

# 107GS MiniPod, Satellite Relocation Device



## Key features

- Remote tracking
- Global satellite connectivity, utilising the IsatData Pro service
- Submersible, 3000m rated
- Multi GNSS receiver
- Internal shock mounts, satellite modem MIL-STD rated
- Ruggedised for harsh environments

## Applications

- Remote asset monitoring
- Relocation of subsea assets, AUV, ROV, cable plough
- Ocean AUV surface GNSS positioning
- Satellite modem

## 107GS MiniPod Overview

The 107GS MiniPod is a shock-mounted and ruggedised satellite transceiver / GNSS receiver that is designed to survive 3000m immersion for relocation and positioning of subsea assets at the sea surface.

The 107GS MiniPod automatically switches on at the sea surface to acquire satellite positions. This GNSS lock minimises cold start times to provide auto tracking.

The 107GS MiniPod is externally powered by a rechargeable battery pack.

# Technical Specification

## MODEL TYPES – PHYSICAL SPECIFICATION

Housing material: 107GS, titanium body with glass hemisphere. Battery, BPK-107G-R, aluminium body.

	Part Number	Survival Depth	Diameter	Length	Weight air/water
<b>107GS MiniPod</b> Satellite transceiver/ GNSS receiver	BCN-107GS	3000m	203mm	285mm	14kg/6.5kg
<b>Battery</b>	BPK-107GS-R	3000m	125mm	600mm	16kg/12kg

## SATELLITE COMMUNICATION

<b>Satellite service</b>	IsatData Pro
<b>Elevation angle</b>	-5° to +90°

## GNSS CONFIGURATION

<b>Receiver type</b>	GNSS Multi-frequency
<b>GNSS compatibility</b>	GPS, GLONASS, BeiDou, QZSS & GALILEO
<b>Real time tracking</b>	Pole Star. Online registration and subscription services

## HORIZONTAL ACCURACY

<b>GPS</b>	2.5 -2.0m
<b>GLONASS</b>	4.0m
<b>BeiDou</b>	3.0m
<b>GPS + GLONASS</b>	2.5-2.0m
<b>GPS + BeiDou</b>	2.5-2.0m

Accuracies dependent on multipath environment, number of satellites in view, geometry & ionospheric conditions.

All satellites at -130dBm.

Circular Error Probable (CEP), 50%, 25 hours Static @ -130dBm

## CONNECTIVITY

<b>Connector</b>	8 pin MCBH connector (male)
<b>Power</b>	12-36VDC 18V nominal

## OPERATION

<b>Warm up time (Typical)</b>	From cold: <60s Hot start: <10s
<b>Automatic switch on</b>	Factory set to operate at <15 psi water pressure
<b>Operational life</b>	Fom fully charged BPK-107G-R battery:  Receiver life: GNSS + Satellite, 10 days continuous Transmit life: 70 hours continuous updates

## BATTERY, PART NUMBER, BPK-107GS-R

<b>Battery type</b>	NiMH rechargeable
<b>Capacity</b>	21Ah at 20°C fully charged
<b>Voltage</b>	16.8V nominal, 21V charged
<b>Fast charger type</b>	Applied Acoustics' 1083 Multi-Charger. Part number CHA-1083
<b>Trickle charge</b>	22-35V 120mA
<b>Connection</b>	8 pin MCBH connector (female)
<b>Interconnect cable</b>	Length, 5m standard. Part number, BPK-107GS-4000