

Aries GPS Radio Pod

PBX Systems LLC introduces Aries, a GPS module for positioning seismic streamers. Aries is a lightweight, rugged, flexible and cost effective alternative to existing products in the market place today.

Aries fully integrated packaging encloses both the GPS and RF antennas within a protective housing to help make installation both quick and easy.

Aries lightweight (8 lbs.) and small size (4.5 inch diameter and 20 inch length) provides greater flexibility in module placement. When Aries is powered up the unit will self configure. No operator intervention is required beyond initially assigning a unit ID.



- Most cost effective GPS Radio Pod for streamer positioning.
- Position or Carrier Phase Raw Data outputs available.
- Wide DC voltage input range.
- 12 Channel “all-in-view” parallel tracking.
- Selectable WAAS/RTCM operation.
- Track multiple Raw Data Aries GPS Radio Pods from a single shipboard radio, optional Position output available.
- Rapid time to first fix after power interruption.
- UHF Radio (450-470 MHz), optional 900 MHz Radio available.

Performance (typical)

Position Accuracy

Single Point L1	< 5 m CEP
WAAS L1	< 1.5 m CEP
DGPS (L1, C/A)	< 1 m CEP

Measurement Precision

L1 C/A Code	75 cm RMS
L1 Carrier Phase	1 cm RMS

Time to First Fix (typical)

Cold Start	120 s
Warm Start	45 s
Hot Start	15 s

Signal Reacquisition < 1 s (typical)

Velocity Accuracy 0.05 m/s RMS

UHF Radio Characteristics

Range	12 km
Channels	99
Bandwidth	12.5/25 KHz
RX Sensitivity	-105 dB
TX Power	2 Watts

Physical & Electrical

Size (inches) 4.5 diameter x 20 length

Weight 8 pounds

Power

Input Voltage + 9 to +30 VDC

Power Consumption 4.0 W (typical)

Communication Ports

1 RS-485 for Position/Raw data.

1 RS-485 for RTCM input.

Input/Output connectors

AG Geophysical AGP-2708M

Environmental

Temperature

Operating -30°C to + 75°C

Storage -40°C to + 85°C

Part Number 58030-00

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