

# Your Global Tracking Solution

MINIATURIZED ARGOS TRANSMITTER

The **Hammerhead** is a fully functional Argos PTT (stand-alone transmitter) that can be quickly integrated into mission specific packages, or used alone to gather Doppler based position information. The Hammerhead benefits from an incredibly small package and advanced power management, making it an ideal choice for long range, long term monitoring projects. Advanced firmware provides multiple options for remote sensors and data acquisition.

## Key Features

- **Small Size: 2.41" X 0.61" X 0.21" (unshielded)**
- **Integrated 3-axis accelerometer**
- **Encapsulated version available for high pressure marine applications**
- **Extremely low power consumption for extended operations**

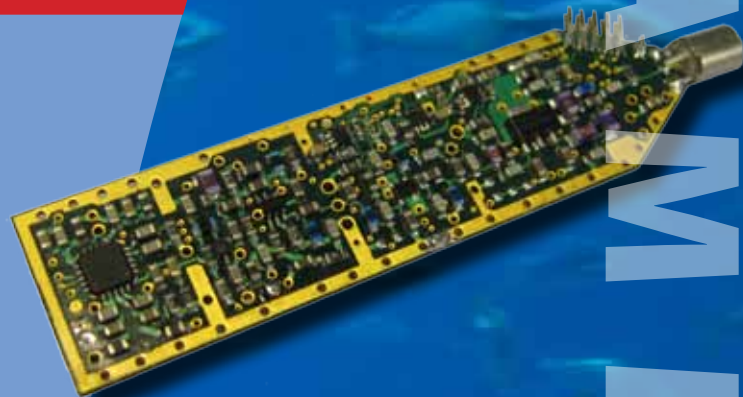
The Hammerhead is field proven to provide excellent results in the harshest environments. Fully backed by a comprehensive warranty and excellent support you can be confident this is a tool you'll come back to time and time again. To arrange a demonstration or to learn more about our products please contact us at the numbers below.



**Xeos** *Technologies Inc*  
**Data Telemetry Specialists**

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# Hammerhead

## TECHNICAL SPECIFICATIONS\*

### Additional Features/ Specifications

- Frequency synthesizer can be programmed for operation in any channel over a 80kHz bandwidth
- Integrated 3-axis accelerometer for motion detection and orientation measurements
- Integrated on board (or external) temperature sensor
- High percentage of Class III fixes, accurate to <250m
- Frequency, ID number and repetition period user configurable through HyperTerminal
- Advanced RISC controller
- Robust RF design is very stable and requires minimal shielding even under adverse antenna loads
- High efficiency custom designed power amplifier is capable of operating under wide voltage range
- Supports 28 bit ID numbers

### Who are we?

Xeos is a leading technology firm created by visionary engineers with a passion for excellence. Xeos prides itself on a pioneer mentality, always striving to create superior technological solutions to tracking and telemetry problems. For more information on our COTS and custom developments please contact us at the numbers below.

### Functionality

*Base Function:*

Fully compliant ALPHA PTT

*Programmable*

*Functions:*

User ID, Repetition Period, Transmit Frequency

*Sensors:*

Accelerometer & Temperature

### Electrical

*Supply Voltage:*

5 V - 24 V

*Sleep Current:*

<30uA

*Transmit Current:*

350mA @ 800mW Output

### RF

*Output Power:*

800 mW nominal

*Antenna Output Impedance:*

50 ohms nominal

*Transmit Frequency:*

14 channels, user selectable

### Programming Interface

*TTL Level Serial:*

9600-57600 baud

*Bootloader:*

Allows user firmware upgrades

### Mechanical

*Dimensions:*

2.1" x 0.68" x 0.25"

*Weight:*

Uncast 4g; Cast 6g

### Environmental

*Operating Temperature:*

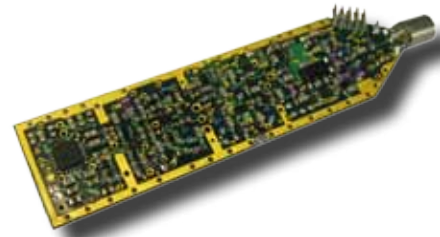
-30C to +70C

*Temperature Storage:*

-50C to +80C

*\*Specifications subject to change without notice.*

**Right:** The small size of the Hammerhead transmitter makes it the ideal product for virtually any application. With a number of encapsulation and enclosure options there's a Xeos Hammerhead configuration perfect for your project.



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