



# Polaris Avian Instruments

## The Phoenix Model ~ \$2,850

*The World's First Solar Globalstar Tag for Birds*



**Solar Powered For Long Operational Life**

**Heading, Altitude, & Speed Recorded With Each GPS Fix**

**Internal GPS Receiver; Uplink via Globalstar Satellite System**

**Truly Real-Time Data From Field To Web**

**56-Channel GPS Engine**

**Accelerometer Readings in 1, 5, or 10Hz Bursts**

**Field Downloadable & Re-programmable Without Recapture Via UHF Link**

**\*Temperature, Humidity, Barometric Pressure, Magnetometer, Gyroscope, & Accelerometer\***

### Logging Specifications

GPS fixes per day: 1 to 48 based on solar charging conditions  
Memory: 8-Megabit Flash  
Storage: up to 90,000 samples

### Uplink Transmit Specifications

Frequency: 1611.25 MHz (Channel A)  
1616.25 MHz (Channel C)  
Frequency Select: Automatic (from GPS location)  
Power: 18 dBm,  $\pm 2$  dB  
Antenna: Dual Feed Patch

### GPS Receiver Specifications

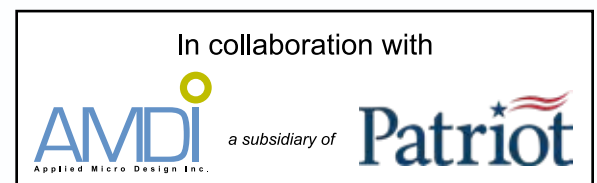
Receiver Type: 56-Channel, u-Blox 7 engine  
Datum: WGS84  
Receiver Accuracy: 2.5 m CEP  
Antenna: 12 mm square patch

### General Specifications

Dimensions: 1.60" W x 4.73" L x 1.26" H  
Weight: 60 grams nominal  
Material: glass-filled nylon  
Battery: 800 mA-h High Discharge Li-Po  
Operating Temperature: -10°C to +50°C

Built-In Solar Cell & Charging Circuit • No External Antenna  
Rechargeable Li-Polymer Battery • Nitrogen Filled Enclosure

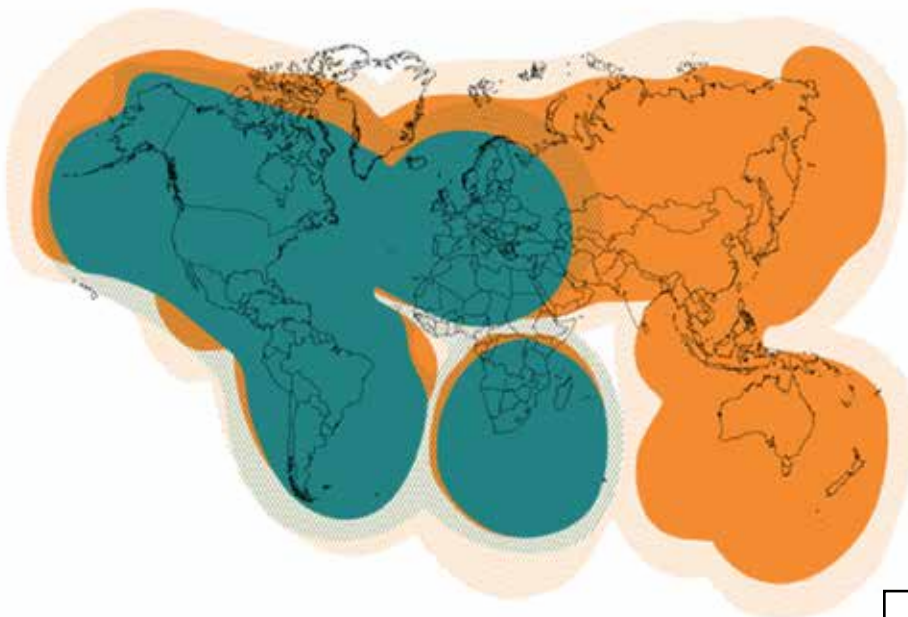
P.O. Box 3981, Oakton, VA 22124  
410-961-6692 • [www.northstarst.com](http://www.northstarst.com) • [blake@northstarst.com](mailto:blake@northstarst.com)







# Polaris Avian Instruments



## Global Coverage



-  S.O.S. AND ONE-WAY MESSAGE COVERAGE
-  FRINGE S.O.S. AND ONE-WAY MESSAGE COVERAGE
-  S.O.S. AND 2-WAY MESSAGE COVERAGE
-  FRINGE S.O.S. AND 2-WAY MESSAGE COVERAGE

In collaboration with



a subsidiary of

