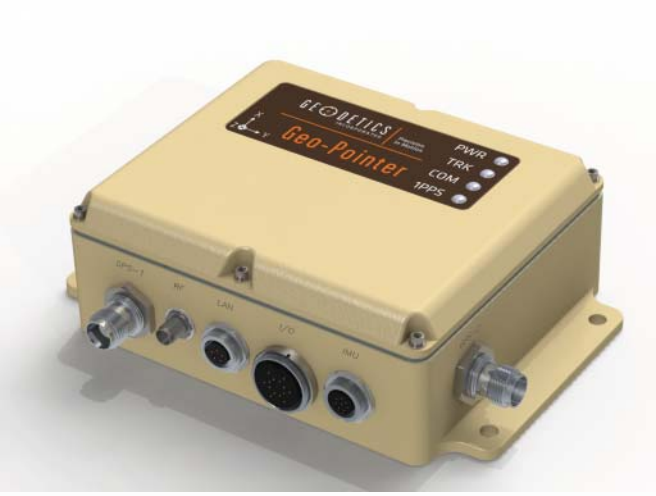
GEODETICS INCORPORATED

Precision in Motion.



Geo-Pointer

Epoch-by-Epoch® High-Accuracy, Real-Time Heading System

The Geo-Pointer is a high-accuracy, real-time heading system for dynamic platforms based on GPS. The system utilizes the relative positions beween two GPS antennas mounted on a platform to compute precise heading and pitch (or roll) information. Applications include heading and pitch (or roll) for manned and unmanned air, sea and ground vehicles, and robotics. The Geo-Pointer is powered by Geodetics' Epoch-by-Epoch® instantaneous differential GPS technology.

Geo-Pointer Features

+ .1 degree accuracy (depends on baseline separation of antennas)*

+ Small footprint - 33.8 cubic inches

+ Light weight - 20 oz

+ 3 RS-232 ports and 1 Ethernet port

+ On-board data logging of all raw and solution data

+ Powered by Precise Instantaneous Network (PIN) positioning, based on Geodetics' Epoch-by-Epoch® technology, a new network-based real-time methodology not requiring multi-epoch initialization and re-initialization

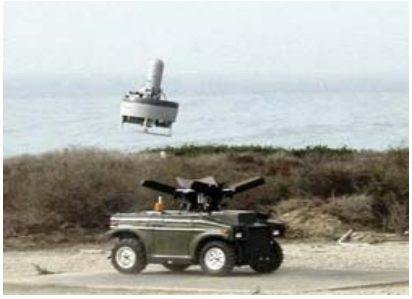
+ Mil-Spec ruggedization

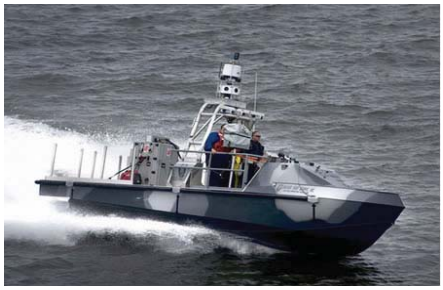
+ On board end-user application support

+ Not sensitive to magnetic fields

+ Can be configured to provide high-accuracy position information as well as heading and pitch (or roll)

*Accuracy is dependent on GPS satellite system performance, ionospheric conditions, satellite visibility, IMU type, data link and other factors.





Geodetics, Inc. 2649 Ariane Drive San Diego CA 92117 Phone: (858) 729-0872 Fax: (858) 729-0874 info@geodetics.com geodetics.com

Geo-Pointer

Epoch-by-Epoch® High-Accuracy, Real-Time Heading System

Technical Specifications

Size, Weight and Construction

+ 33.8 cubic inches
+ 20 oz
+ MIL-810E Environmental compliant
+ MIL-461 EMI and RFI compliant

Power

+ 10-30 VDC @ 2 AMPS minimum

Interfaces

+ External power connector
+ 2 TNC GPS antenna connector
+ SMA RF connector for optional internal data link
+ 1 Ethernet data port
+ 3 RS-232 serial ports
+ 1PPS output
+ 4 status LEDs

Real-Time Data Output

+ Precise heading
+ Precise pitch (or roll)
+ Solutions up to 20 Hz. available via Etnernet, RS232 or optional wireless data link

Data Recording/Logging

+ Heading and pitch (or roll) solutions
+ Raw GPS data (for post processing),
+ Full dagnostics

Wireless Communications Options

+ Internal TDMA data-link (various frequencies available)
+ AES encryption and Point-to-Point mode available
+ Support for external datalink via RS-232 or Ethernet

RTK Algorithm

+ Precise Instantaneous Network (PIN) Positioning with Geodetics' Epoch-by- Epoch® technology

Safety and Diagnostics

+ Internal safety and monitoring systems
+ Internal BIT with operator notification

Temperature

+ Operating: -40°F to +185°F (-40°C to +85°C)
+ Storage: -67°F to +185°F (-55°C to +85°C)

Geodetics, Inc. 2649 Ariane Drive San Diego CA 92117 Phone: (858) 729-0872 Fax: (858) 729-0874 info@geodetics.com geodetics.com