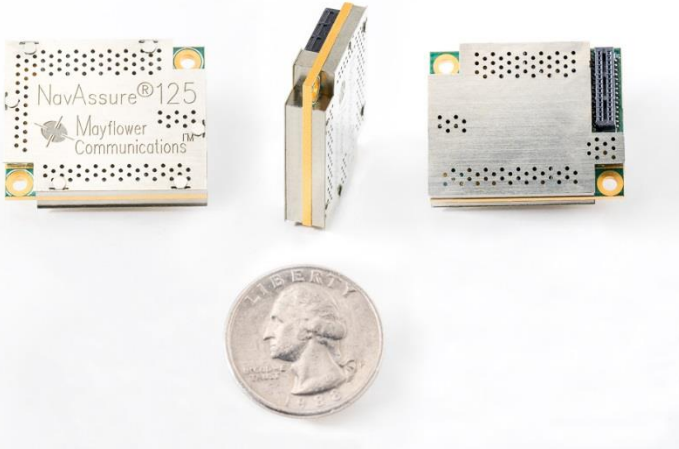


NavAssure® 125 SAASM P(Y) Code GPS Receiver

Ultra-compact dual frequency SAASM receiver

Capabilities and Features



The *NavAssure® 125* receiver is one of the world's smallest, lightest and lowest power SAASM receiver*. Designed from the ground-up to service the most SWAP constrained applications, *NavAssure®* allows deployment of SAASM technology in platforms never thought possible. From embedded radios to artillery applications, to micro-UAVs and Blue Force Tracking applications, Mayflower's micro SAASM receiver is redefining the military GPS receiver landscape. *NavAssure® 125* is packaged in a 1.25" x 1" board form factor.

High level Features**

- Antenna input: single passive antenna
- All-in-view tracking
- Simultaneous L1 and L2 (C/A and P(Y))
- Next Generation Security Architecture

SWAP Metrics

- Size: 1.25" x 1" x 0.292"
- Weight: 10 grams
- Power: < 1.3W (continuous tracking mode)
: < 1W (Fix Mode)
- Power Supply: 3.3V +/-10%

Performance Metrics

- 8 second direct-Y acquisition (Hot-Start)
- Position Accuracy: < 3m (1 sigma SEP)
- Velocity Accuracy: < 0.1 m/s (1 sigma)
- PVT output: up to 10 Hz

NavAssure® 125 Technical Specifications Summary

- Interface: 30 pin connector (Samtec SEMS-115-02-03.0-FG-D-K)
- Host Interface: COM1/COM2 (3.3V LVTTTL)
- Protocol: IS-GPS-153
(Outputs: PVT,
Channel/Satellite/SAASM Status)
- Key Fill Ports: DS-101
- PPS: 1 PPS In/1 PPS Out
- Operating Voltage: 3.3 V +/- 10%
- Temperature
Operating: 0°C to +70°C
Storage: -55°C to +125°C
- Built-In Test (BIT): 95% coverage
- Antenna Input: Passive (Hirose U.FL-R-SMT-1)
- Codes/Frequencies: L1 and L2 Simultaneous, C/A and P(Y)

NavAssure® is a registered trademark of Mayflower Communications Company, Inc.

* The NavAssure® 125 has been granted Security Approval by the GPS Directorate.

** Suitable for SWAP constrained small UAS and handheld applications