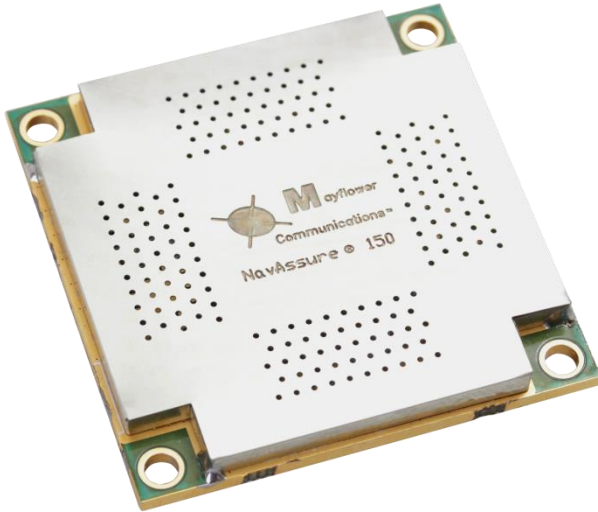


## NavAssure® 150 SAASM P(Y) Code GPS Receiver

*Ultra-compact dual frequency SAASM receiver*

### Capabilities and Features

The *NavAssure® 150* 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® 150* is packaged in a 1.57" square board form factor.



#### High level Features\*\*

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

#### SWAP Metrics

- Size: 1.57" x 1.57"
- Weight: 15.7 grams
- Power: < 1.3W (continuous tracking 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® 150 Technical Specifications Summary

- Interface: 10 pin connector (Samtec SFM-110-02-S-S-A)
- Host Interface: COM1/COM2 (3.3V LVTTTL)
- Protocol: ICD-GPS-153  
(Outputs: PVT, PR/DR, Channel/Satellite/SAASM Status)
- Key Fill Ports: DS-101 and DS-102
- PPS: 1 PPS In/1 PPS Out
- Operating Voltage: 3.3 V +/- 10%
- Temperature
  - Operating: -40°C to +85°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® 150* has been granted Security Approval by the GPS Directorate.

\*\* Suitable for SWAP constrained small UAS and handheld applications