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DATA SHEET

NavAssure® 100 SAASM P(Y) Code GPS Receiver



High level Features

- Interface to passive antenna up to 4 antenna elements
- 12 tracking channels all in view design
- Selectable L1 or L2 (C/A and P(Y)
- Next Generation Security Architecture
- Gun hardened to 20,000 G's**
- High dynamics applications: spinning projectiles and mortars

SWAP Metrics

- Size: 42 mm diameter, 16.5 mm height
- Weight: 40 grams
- Power: < 1.3 W (continuous tracking mode)

Performance Metrics

- < 8 second direct-Y acquisition (at 300 Hz spinning)
- Position Error: < 3m (1 sigma SEP)
- Velocity Accuracy: < 0.1 m/s (1 sigma)
- PVT output: up to 10 Hz

Capabilities and Features

The NavAssure® 100 receiver is one of the lightest and lowest power world's smallest. SAASM receiver*. Designed from the ground-up service the most **SWAP** constrained to applications, NavAssure® allows deployment of SAASM technology in platforms never thought From embedded radios to artillery possible. applications, to micro-UAVs and Blue Force Tracking applications, Mayflower's micro SAASM receiver is redefining the military GPS receiver landscape. NavAssure® 100 is packaged in a 42 mm outside diameter form factor.

NavAssure® 100 Technical Specifications Summary

• Interface: 25-pin Host Connector

• Host Interface: 2 serial ports, 3.3 V LVTTL

• Protocol: ICD-GPS-153

(Outputs: PVT, PR/DR,

Channel/Satellite/SAASM Status)

Key Fill Port: DS-101

• PPS: 1/10 PPS Out, 10 PPS in

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 (SSMC Straight connectors)

Codes/Frequencies: L1/L2 selectable, C/A and P(Y)

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

- The NavAssure® 100 has been granted Security Approval by the GPS Directorate.
- ** Suitable for SWAP constrained precision guidance projectiles and munitions

