



REBRAND
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SAASM GB-GRAM SSI Embedded

A SAASM compliant GB-GRAM compatible solution for the developer.



Engineered for life

Photos courtesy of the U.S. DoD and ITT Corporation.

SAASM GB-GRAM SSI Embedded GPS Receiver

ITT's embeddable Global Positioning System (GPS) receivers utilize Selective Availability Anti-Spoofing Module (SAASM) technology to provide authorized users access to the GPS Precise Positioning Service. It's offered here in the popular Small Serial Interface (SSI) form factor of the Ground Based GPS Receiver Application Module (GB-GRAM) standard. Additional features include enhancements that extend the proven performance and reliability of the popular SINCGARS RT-1523 Embedded GPS Receiver. Designed with the Original Equipment Manufacturer (OEM) user in mind, it readily supports military surveying, navigation and timing applications. In fact, the SAASM GB-GRAM SSI lies at the heart of ITT's Precision Time Transfer Receiver (PTTR-12) built for use by the U.S. Naval Observatory and GPS Control Segment.

The SAASM GB-GRAM SSI is available immediately. Ask us about tailoring a solution for your needs.

Features

- Small, lightweight, convenient, multipurpose SAASM application card
- High adaptability to high volume requirements
- Custom form factors possible
- SAASM compliant
- Dual-frequency, L1, L2, All-In-View
- 12 channels simultaneous/continuous
- Serial ports: RS422, RS232, CMOS (2)
- Selectable 1 pps; time marks, UTC
- 1 pps time-sync
- ICD-GPS-060 PTTI and Have Quick
- Supports key loading via standard KYK-13 and KOI-18 protocols
- Message structure protocol: ICD GPS 153B
- Low power, 3.3 volt technology
- Jamming tolerant
- Software reprogrammable

Performance

- Accuracy
 - PPS position accuracy: 3 m, SEP
- Navigation
 - Altitude: -700 to 25,000 m
- Time: < 50 nsec
- TTFF: < 40 s (95%) Warm Start



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The GPS Wing has determined this information is suitable for public release - case 09-14. Specifications are subject to change without notice. Sales of militarized GPS equipment is restricted to authorized users only. Consult the Global Positioning Systems Wing at <http://gps.losangeles.af.mil> or reference CZU-03-071 for information on how to obtain GPS Host Application Equipment.

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