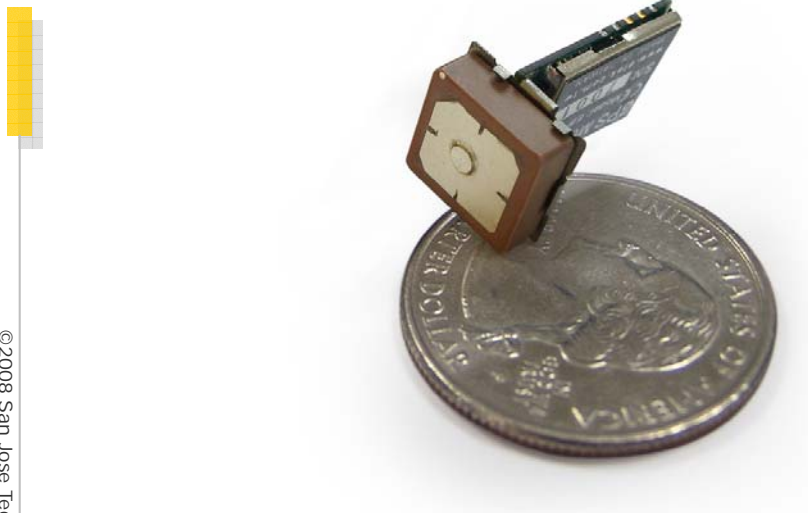




T-type GPS Engine Board

MODEL: EB-12T



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Introduction:

EB-12T is the newest generation of Sanav EB series GPS engine board. This low-powered, small form factor board is powered by SiRF Star III technology. The T-type design of **EB-12T** is the best choice for embedding in portable devices and receivers like PND, mobile phone, car holder, personal locator, digital camera, and vehicle locator. The high sensitivity of **EB-12T** provides great performance when going through the urban canyon and foliage.

Features:

- Assembled in the form of T-type
- 20 parallel channels
- -159 dBm high GPS sensitivity
- Excellent sensitivity for urban canyon and foliage environments
- Operable from 3.3V, average tracking current is 45mA@3.3V; average acquisition current is 50mA@3.3V
- TCXO design
- NMEA-0183 compliant protocol/custom protocol
- SBAS (WAAS and EGNOS) support
- 4 Mbits Flash Memory
- SMT type with stamp holes
- Lead-free



Applications:

- Personal Navigation Device including GPS PDA and GPS Handheld
- Mobile phone and smart phone
- GPS receiver and GPS mouse
- Personal positioning and navigation
- Automotive/Marine navigation
- Timing application

Specification:

| Function | Specification |
|--------------------------------|---|
| GPS receiver | |
| Chipset | SiRF Star III, GSC3f/LPSingle Chipset |
| Frequency | L1 1575.42MHz. |
| Code | C.A. Code. |
| Channels | 20 parallel |
| Sensitivity (Tracking) | -159dBm. |
| Cold start | 42 sec (Signal Strength > 30 dB-HZ) |
| Warm start | 35 sec (Signal Strength > 30 dB-HZ) |
| Hot start | 1 sec (Signal Strength > 30 dB-HZ) |
| Reacquisition | 0.1sec typical |
| Position accuracy (95%) | 10m 90% |
| Maximum altitude | 18000 m |
| Maximum velocity | 514 m/s |
| Trickle power mode | Duty cycle \leq 34%. (Variable) |
| Update rate | Continuous operation: 1Hz |
| Testability | It shall be able to be tested by SiRF test mode 4 and single channel simulator. |
| Protocol setup | It shall store the protocol setup in the SRAM memory. |
| Interface | |
| I/O Pin | 14pin stamp holes |
| Mechanical requirements | |
| Weight | \leq 6g |
| Power consumption | |
| Vcc | DC 3.3 \pm 5% |
| Current | Typ. 45mA (tracking situation) Typ. 50mA (acquisition situation) |
| Environment | |
| Operating temperature | -40 °C ~ 85 °C |
| Storage temperature | -40 °C ~ 85 °C |
| Humidity | \leq 95% |

* This specification is subject to change without prior notice

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