



T-type GPS Engine Board

MODEL: EB-15A



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Introduction:

EB-15A 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. It's a special design for the embedded applications such as portable devices and receivers like PND, mobile phone, car holder, personal locator, digital camera, and vehicle locator. The high sensitivity of **EB-15A** provides great performance when going through the urban canyon and foliage. Also, the **EB-15A** is ideal for variety of requirements that request the dimension of GPS module.

Features:

- 20 parallel channels
- Excellent sensitivity for urban canyon and foliage environments
- Operable from 3.3V/ 48mA continuous mode
- TCXO design
- NMEA-0183 compliant protocol/custom protocol
- SBAS (WAAS, EGNOS and MSAS) support
- 4M bits Flash Memory
- Enhanced algorithm for the navigation stability
- Lead-free
- 0.1s reacquisition time

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
- Dimension: 44.5±0.2(L) x 15±0.2(W) x 7.4max.(H) mm

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	35 sec at open sky
Warm start	35 sec at open sky
Hot start	1 sec at open sky
Reacquisition	0.1sec typical
Position accuracy (95%)	10m at 2D RMS
Maximum altitude	18000 m
Maximum velocity	514 m/s
Trickle power mode	40mA at average
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.
DGPS	WAAS, EGNOS
Interface	
I/O Pin	6 pin
LNA	25 dB Gain. (Typical)
Mechanical requirements	
Weight	≤ 8.3g
Power consumption	
Vcc	DC 3.3V ±5%
Current	GPS: Typ. 48mA @ 3.3V (Avg. acquisition) Typ. 45mA @ 3.3V (Avg. tracking)
Environment	
Operating temperature	-25 °C ~ 85 °C
Storage temperature	-40 °C ~ 85 °C
Humidity	≤ 95%

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