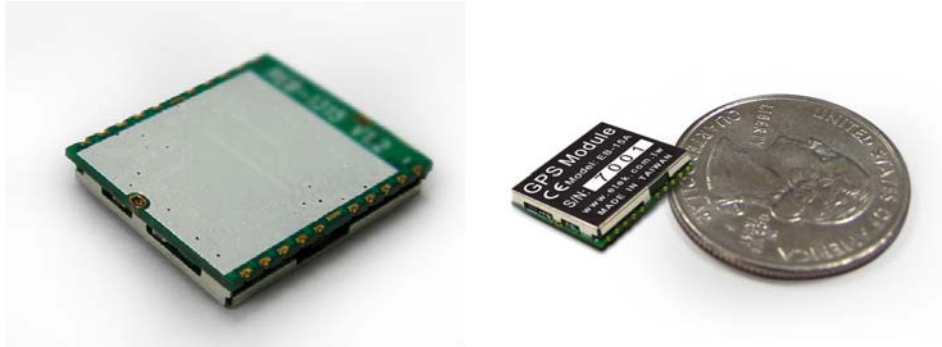




Compact GPS Engine Board

Model: FV-35



Introduction:

FV-35 is currently a most compact module from Sanav's GPS engine board. With SIRF STAR III GPS technology, FV-35 offers you a solution if you are looking for high sensitivity module. FV-35 is also suitable to design in the device like GPS navigator or mobile phone that needs the device as compact as possible. FV-35 is definitely a best choice to satisfy your desire for the "compact".

Features:

- 20 parallel channels
- SMT type with stamp holes
- High quality stereo audio output
- TCXO design
- 0.1 second reacquisition time
- Small form factor with embedded SiRF Star III single chip technology.
- NMEA-0183 compliant protocol/ customize protocol
- Enhanced algorithm for navigation stability
- Excellent sensitivity for urban canyon and foliage environments.
- DGPS (WAAS, EGNOS) support
- Auto recovery while RTC crashes
- Build-in LNA and saw filter

Applications:

- Automotive navigation / Personal positioning and navigation
- Marine navigation / Timing application

©2008 San Jose Technology, Inc. All specifications subject to change without notice.

Specifications:

GPS receiver	
Chipset	SiRF Star III, GSC3f/LPx (Digital, RF in a single package)
Frequency	L1 1575.42MHz.
Code	C.A. Code.
Channels	20 parallel
Sensitivity (Acquisition)	-159dBm.
Cold start	35 sec @ open sky (Typical)
Warm start	35 sec @ open sky (Typical)
Hot start	1 sec @ open sky (Typical)
Reacquisition	0.1sec typical
Position accuracy	10meters at 2D RMS.
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 testmode 4 and single channel simulator.
Protocol setup	It shall store the protocol setup in the SRAM memory.
DGPS	1.WAAS, EGNOS 2.RTCM protocol
Interface	
LNA	17dB Gain. (Typical)
I/O Pin	22pin
Mechanical requirements	
Weight	\leq 3.5g
Power consumption	
Vcc	DC 3.3 \pm 5%
Current	GPS : 33mA@3.3V (Acquisition w/o ext. Antenna) Typical 32mA@3.3V (tracking w/o ext. Antenna) Typical 11mA@3.3V (Standby mode w/o ext. Antenna) Typical
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