



# Compact GPS Module

## Model: FV-15L



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### Introduction:

FV-15L low power and small form factor board is the newest generation of Sanav smart antenna GPS module. The smart antenna GPS module is powered by SiRF Star III technology and Sanav proprietary navigation algorithm that providing you more stable navigation data. Parallel design is the major new feature of FV-15L.

The smallest form factor and parallel design is the best choice to be embedded in a portable device and receiver like PND, mobile phone, car holder, personal locator, digital camera and vehicle locator. The excellent sensitivity of FV-15L gets the great performance when going though the urban canyon and foliage.

### Features:

- 20 parallel channels
- Extreme fast TTFF at low signal level
- Wire to board connector
- TCXO design
- 0.1 second reacquisition time
- Small form factor with embedded SiRF Star III single chip technology.
- NMEA-0183 compliant protocol/custom protocol.
- 4 Mbits Flash Memory
- Enhanced algorithm for navigation stability
- Excellent sensitive for urban canyon and foliage environments.

### Applications:

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

### Specifications:

<b>GPS receiver</b>	
Chipset	SiRF Star III, GSC3f/LPX (Digital, RF in a single package)
Frequency	L1 1575.42MHz.
Code	C.A. Code.
Channels	20 parallel
Chipset Sensitivity	-159dBm.
Cold start	35 sec @ open sky
Warm start	35 sec @ open sky
Hot start	1 sec @ open sky
Reacquisition	0.1sec typical
Position accuracy	10meters at 2D RMS.
Maximum altitude	18000 m
Maximum velocity	514 m/s
Update rate	Continuous operation: 1Hz
Testability	It shall be able to be tested by SiRF test IV and single channel simulator
Protocol setup	It shall store the protocol setup in the SRAM memory.
<b>Interface</b>	
LNA	28dB Gain. (Typical)
I/O Pin	Connector type: wire to board 6pin
<b>Antenna</b>	
Size	Build in Patch Antenna, 15x15x4mm
RF Connector	MMCX
<b>Mechanical requirements</b>	
Weight	8.1g Typ.
<b>Power Consumption</b>	
Voltage Range	DC +3.3V~ +5V
System Current	GPS : Avg. Acquisition <30mA@3.3V(without ext. antenna) Avg. Tracking<30mA@3.3V(without ext. antenna)
<b>Environment</b>	
Operating Temperature	-40 °C ~ 85 °C
Storage temperature	-40 °C ~ 85 °C

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