

## FV-15L “GPS Receiver Module”

### Overview:

The FV-15L is a small form factor board with embedded SiRF Star III single chip technology

The FV-15L is a low power, small sized antenna GPS module

FV-35L has excellent sensitivity

### Features:

20 parallel channels

Extreme fast TTFF at a low signal level

Wire to board connector

CXO design

01. second reacquisition time

Small form factor with embedded SIRF Star III single chip technology

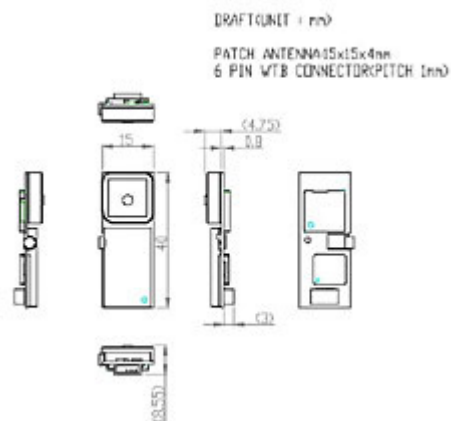
NMEA –0183 compliant protocol/custom protocol

4 Mbits Flash Memory  
Enhanced algorithm for navigation stability

Excellent sensitive for urban canyon and foliage environments

### Application:

Automotive navigation / personal positioning  
navigation / Marine navigation / Timing  
application



## **Specification FV-15L GPS Receiver Module:**

<b>PHYSICAL CONSTRUCTION :</b>		<b>PERFORMANCE :</b>	
Dimension	L 15 mm W 24 mm H 7.5 mm	Sensitivity	-159dbm
Weight	8 gram	Receiver architecture	20parallel channels
Receiving frequency	1575.42MHZ; C/A code	Position Accuracy	10 meters @ 2D RMS
RF connector	MMCX	Requisition	0.1 sec. Typical
Build in Patch antenna size	15x15x4 mm	Start-up time	Hot start 1 sec typ.
			Warm start 35 sec typ.
			Cold start 35 sec typ.
<b>ENVIRONMENTAL CONDITIONS :</b>		Position accuracy	Without aid 3.35 m CEP
Temperature	Operating: -40° ~ + 85°		With SBAS 2.60 m
		Storage: -40° ~ + 85°	
<b>Interface:</b>		Velocity	514 m/s
LNA	28dB Gain typ.	Maximum altitude	18000 m/s
I/O Pin	Conector type: wire to board 6 pin	Update Rate	Continuous operation 1 Hz
		External Antenna	GPS antenna with 2.8V power pin
		Power Supply	DC +3,3V ~ + 5V
		Current Consumption	GPS: Avg. Acquisition:
			AVG Tracking -30mA @3.3 V (w/o antenna) <30mA @3.3V (w/o antenna)

**This specification is subject to change without prior notice...**