

## EB-15A “GPS Receiver Module”

### **Overview:**

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EB-15 is powered by SIRF Star III Chipset

It is specially designed for embedded applications such as portable devices and receivers like PND, mobile phone, car holder, personal locator, digital cameras and vehicle locator

The Module provides great performance even when going through urban canyon and foliage

### **Application:**

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-Personal navigation Device including GPS, PDA and Handheld GPS

-Mobile phones and smart phones

-GPS receiver and GPS mouse

-Personal positioning and navigation

-Automotive / Marine navigation

-Timing application

### **Features:**

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-20 parallel channels

-159 dBm high GPS sensitivity

-Excellent sensitivity for urban canyon and foliage environments

-Operable from 3.3V / 48 mA continuous mode

-Average acquisition is 50 mA @ 3.3V

-TCXO design

-NMEA –0183 compliant protocol/custom protocol

-SBAS (WAAS and EGNOS ) support

-4 Mbits Flash Memory

-01s reacquisition time



## **Specification EB-15A GPS Receiver Module:**

<b>PHYSICAL CONSTRUCTION :</b>		Protocol setup shall be stored in the SRAM memory		
Dimension	L 42,0 mm W 14,0 mm H 7,1 mm	Position Accuracy	10 meters @ 2D RMS	
Weight	8,3 gram	Requisition	0.1 sec. Typical	
Frequency	L1 1575.42MHZ; C/A code	Position accuracy (95%)	10m @ 2D RMS	
Chipset	SiRF Star III, GSC3f/Lps Singel Chipset	Hot Start	1 sec	
		Warm start	35 sec typ.	
		Cold start	35 sec typ.	
<b>ENVIRONMENTAL CONDITIONS :</b>		Maximum altitude	18000 m/s	
Temperature	Operating: -25° ~ + 85°	Update Rate	Cont. operation 1Hz	
	Storage: -40° ~ + 85°	Trickle power mode	40mA at average	
Humidity	95%	Max. Velocity	514 m/s	
<b>PERFORMANCE :</b>		Power Supply	DC +3,3V +/- 5%	
Sensitivity	-159dbm	Current	Tracking	48mA @ 3.3 V
Receiver architecture	20 channels		Acquisition	45mA @ 3.3 V
<b>Interface:</b> I/O Pin 6 pin LNA 25 dB Gain (typical)				

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