

YIC-616EB

Product Features:

- SiRF star III high performance GPS Chipset
- Very high sensitivity (Tracking Sensitivity: -159 dBm)
- Extremely fast TTFF (Time To First Fix) at low signal level
- Two serial ports
- 4Mb flash
- Built-in LNA
- Compact size (15.9mm * 13.1 mm * 2.2mm) suitable for space-sensitive application
- One size component, easy to mount on another PCB board
- Support NMEA 0183 and SiRF binary protocol

Product Specifications

GPS Receiver	
Chipset	SiRF GSC3e/LP
Frequency	L1, 1575.42 MHz
Code	C/A Code
Protocol	NMEA 0183 v2.2
	Default:GGA,GSA,GSV,RMC
	Support:VTG,GLL,ZDA)
	SiRF binary and NMEA Command
Available Baud Rate	4,800 to 57,600 bps adjustable
Channels	20
Flash	4Mbit
Sensitivity	Tracking:-159dBm
Cold Start	42 seconds, average
Warm Start	38 seconds, average
Hot Start	1 second, average
Reacquisition	0.1 second, average
Accuracy	Position: 10 meters, 2D RMS
	5 meters, 2D RMS, WAAS enabled
	Velocity: 0.1 m/s
	Time: 1us synchronized to GPS time
Maximum Altitude	< 18,000 meter

Maximum Velocity	< 515 meter/second
Maximum Acceleration	< 4G
Update Rate	1 Hz
DGPS	WAAS, EGNOS, MSAS
Datum	WGS-84
Interface	
I/O Pins	2 serial ports
Physical Characteristic	
Type	36-pin stamp holes
Dimensions	15.9 mm * 13.1 mm * 2.2 mm ±0.2mm
DC Characteristics	
Power Supply	3.3Vdc ± 5%
Backup Voltage	2.0 ~ 3.6Vdc ± 10%
Power Consumption	Acquisition: 42mA
	Tracking: 25mA
Environmental Range	
Humidity Range	5% to 95% non-condensing
Operation Temperature	-30°C to 85°C
Storage Temperature	-40°C to 125°C

Block Diagram

