

SiRFstarIIe/LP Evaluation Kit

For Complete Performance Evaluation



INTRODUCTION

With the low power requirements and improved throughput of the SiRFstarIIe/LP chip set, it is still important to ensure that the performance and capabilities of SiRF's LP GPS solution is right for your application. The SiRFstarIIe/LP Evaluation Kit (EVK) provides all of the tools and equipment necessary to easily and efficiently evaluate the suitability, performance and capabilities of the SiRFstarIIe/LP chip set and GPS software solution.

DATA COLLECTION CONVENIENCE

Flexibility and ease of use are assured with the SiRFstarIIe/LP Evaluation Receiver and SiRFDemo PC software - two of the tools included with our EVK. Equally suited to a road or workbench testing environment, the Evaluation Receiver includes the S2AM GPS module housed in a durable aluminum casing. Highly visible LEDs provide immediate indication of the receiver operation, while two configurable serial ports allow operation in either SiRF Binary or NMEA protocols. For increased accuracy, the Evaluation Receiver is DGPS ready - being able to use DGPS corrections in the RTCM SC-104 format.

The provided SiRFDemo PC software can be used to monitor all aspects of receiver operation in real-time by graphically displaying information such as signal strength, position solution, velocity, and satellite tracking. The SiRFDemo PC software can also be used to quickly configure the Evaluation Receiver to the desired mode of operation, or to log GPS data for later analysis.

FURTHER ANALYSIS

Real-time testing in the field or on the workbench is often not enough to understand exactly what is happening. Included with the SiRFstarIIe/LP EVK is SiRFsig - a post process data analysis utility. With data already collected in the field, SiRFsig will quickly provide various graphical displays - allowing for easy interpretation of the collected data. Some of the many displays include C/No polar plots for antenna performance analysis, specific satellite C/No values, position variation information and other useful statistical values.

TO COMPLETE THE PICTURE

To complete the set of tools needed to evaluate the SiRFstarIIe/LP chipset, the EVK also includes detailed documentation, an active magnetic mounted GPS antenna, serial cable, a 110 to 220V power supply and a cigarette lighter adapter for those road trips.

THE EVK COMES COMPLETE WITH:

- Evaluation Receiver based on the SiRFstarIIe/LP chip set
- SiRFDemo PC software for full performance monitoring, data logging and receiver control
- SiRFsig PC software for additional data processing power
- SiRFflash PC software to update the Evaluation Receiver software
- Active GPS antenna with 5 meter cable
- 110 to 220V power converter
- Cigarette lighter adapter for road testing
- Serial Cable
- SiRFstarIIe/LP Evaluation Kit User's Guide



Evaluate



Develop



Build

TECHNICAL SPECIFICATIONS

Position Accuracy	
Autonomous	<10m
WAAS	<5m
Beacon DGPS	<2.5m
Receiver	
Tracking	L1, CA code
Channels	12
Max. Update Rate	10Hz
Sensitivity	-172dBW
Max. Altitude	<60,000 ft
Max. Velocity	<1,000 knots
Protocol Support	NMEA, SiRF Binary
Acquisition	
Reacquisition Time	100msec
SnapStart	<3sec
Hot Start	<8sec
Warm Start	<38sec
Cold Start	<45sec
Power	
Full Power	<175mW
TricklePower (1Hz)	<60mW
Voltage	2.7-3.3V
Dimensions	
Width	105mm
Length	157mm
Height	40mm

HIGHLIGHTED ADVANTAGES

SiRF understands that time is always an issue and that it is important to move quickly through each of the development steps. That is why the SiRFstarIle/LP EVK gives you the tools to quickly and easily complete the GPS evaluation step in your development path.

All the hardware and accessories are provided so you can collect data and monitor the performance in the environment you choose.

Intuitive PC software allows you to graphically see the results of your testing; giving you the confidence needed in the SiRFstarIle/LP architecture.

In the event that you do need additional assistance, you will also have access to a dedicated team of engineers.

PRODUCT ORDERING INFORMATION

For more information, contact your SiRF representative, or call our sales force on +1 (408) 467-0410, or visit us at www.sirf.com.

SiRFstarIle Evaluation Kit PN: 9900-0110 US\$995.00

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