



GPS MODULE EVALUATION BOARD

Features

- Standard RS232 Data Output Via 9way D Type Connector
- Data In Standard NMEA Format
- Low Power Consumption
- Supplied with
 - o GPS Antenna
 - o Supporting software
 - o RS232 Cable (for PC connection)
- Led Indicators For Valid Almanac And Signal Lock
- Link Selectable And Programmable Baud Rates
- Onboard Regulator Allows 3.3v To 15v Supply
- Compatible With Popular Routing Software



Applications

- Development for embedded GPS
- Asset Management
- Vehicle Tracking / Navigation
- Add On For PDA's

Description

This board is provides a hardware and software evaluation platform for development of the RF Solutions GPS/PVT module. This module provides position, velocity and time information in a standard NMEA string format that is compatible with a range of GPS driven navigation packages including Microsoft AUTOROUTE. The evaluation board provides a completed design utilising the GPS Module. This provides a direct PC interface via 9 way 'D' type connector and a row of pin headers to enable configuration and monitoring of the GPS signals. Power may be from any dc supply from 3.3 – 15V. Two LEDs provide additional information relating to the signal lock status and the validity of the onboard almanac.

Ordering Information

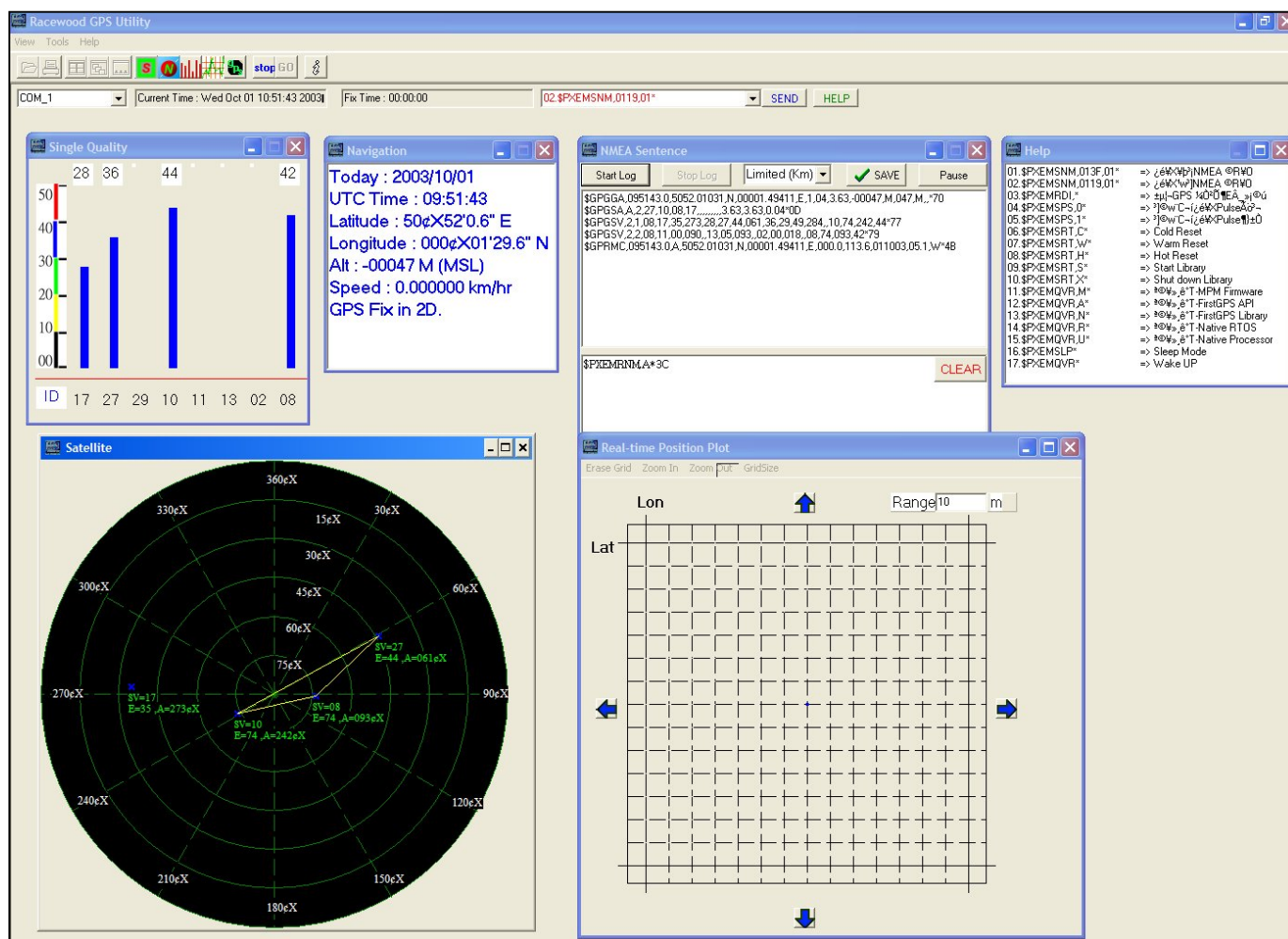
Part Number	Description
GPS-EVAL2R2	GPS Module Evaluation Board





- ## Evaluation Software

- This provides an interface to the GPS receiver. Information including your current Location, a real time position plot, the satellite locations and the satellite signal strength is displayed, as shown below.
- The only connections required to the GPS Evaluation board are an RS232 data cable and power.
- All jumper connections can be left open and the communications can be effected at 9600 baud.



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Antenna Information

The GPS antenna is a compact active antenna designed for use with GPS module GPSM001. The antenna is equipped with a magnetic base so can be easily mounted. Due to the low power consumption it is ideal for portable devices.

Features

- Active antenna design
- 5 meter coax connecting cable
- 100 mm SMA-to-HFL conversion cable suppli
- Small size 39 x 35 x 12.5 mm



Parameter	Min	Typ	Max
Foperating		1574.42 MHz	
Bandwidth		2.046 MHz	
Operating Temp range	-20 °C		85°C
Connector		SMA	
Patch Antenna			
Polarization		R.H.C.P	
Gain to Fo @90° elevation		5 Dbi	
Output VSWR			2
Impedance		50 Ohm	
Antenna + LNA			
Gain to Fo	27 dB	29 dB	33 dB
Noise Figure			1.7dB
Voltage Supply	2.7 V	3.3 V	3.9 V
Current Consumption		12 Ma	

For more information or general enquiries, please contact:

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