

Windows Product Operation Validation

Q: My computer is not recognizing my GPS receiver after I installed the enclosed drivers. What do I need to perform to verify my receiver is functional?

A: Under rare circumstances there will be driver recognition or even communication conflicts presented after driver installation steps are fully completed as described by the user's manual. Effects such as this can be immediately addressed, a step-by-step troubleshooting instructional guide is provided below to assist and perhaps solved your current problem.

GPS Driver Verification

In the initial stage, you need to identify if the appropriate drivers are loaded. This information can be found in various places in the Operating System, a description of these places is listed below.

First, connect GPS receiver to your USB port and open the "Device Manager" utility, if question marks are displayed under "Other Devices/USB<->Serial", this is an indication that no drivers are currently installed. You may select this folder and load the appropriate drivers. For installation instructions refer to your product CD-ROM. If no such notifications are present, then expand "Ports" and connect the GPS receiver. This will update and display "Prolific USB-to-Serial Com Port (COM X)".

Second, from the START select "Control Panel" and select the Add or Remove programs icon from the list. Then verify "PL-2303 USB-to-Serial" is listed in the populated window provided.

Finally, right-click (click using the right button on your mouse) the "My Computer" icon from your desktop or right-click (click using the right button on your mouse) the "Start" button at the bottom-left of your screen, this will launch the Windows search utility. Enter "pl2303" in the box for files and folders and confirm Prolific files are in existence in your computer system. This completes and confirms that your GPS USB drivers are fully installed and operational.

GPS Test Utility

In the next stage, a GPS test application will be downloaded and used to view the receiver's activity or can be compare with your current loaded mapping application. This GPS Info program utility will provide you with viewable GPS data information needed for full receiver functionality validation.

You may download this utility by clicking on the link provided below.

http://www.usglobalsat.com/downloads/SiRF_Demo.zip

First, launch the GPS Info program this will display the Setup page. Then from the drop down menu list, select the COM port that caters for the TripNav USB GPS receiver and set the Baud Rate to 4800bps. Mirror these settings from the information acquired in Device Manager utility. Settings can be found under Device Manager->Ports->USB Serial Port (COM X)->Port Settings....

Almost instantaneously, NMEA raw data strings will be display at a rate of one second intervals below the configuration settings. To view real-time satellite information, select the GPS Info tab at the bottom of the window. Within two-minute window period, your first GPS fix should be acquired. This GPS Info window will provide the user with satellite visibility and blue graphical signal strength representation from real-time satellites synchronization. Note: Three satellites are required for two dimension positioning. Two dimension positioning reports position only. Four satellites are required for three-dimension positioning, that is to say position and elevation.