GSR2700 IS Installation for USB Driver

Downloading the USB Driver

To download the USB Driver, go to **www.sokkia.com**, click on ***U.S.A.***, then click on ***Downloads***, then click on ***GSR2700 IS***. Download the zip file and use the Winzip program to extract the files contained within the zip file. Save the following extracted files to a directory you can find later, then follow the instructions under the Setup section in the *USB Driver Installation* document, which is contained in the zip file

- ngpsusb.inf
- ngpsusb.cab
- ngpsser.inf
- USB Driver Installation.pdf
- ReleaseNotes.txt

USB Driver Installation Instructions

If upgrading drivers, uninstall older version using the ***Configure USB Virtual Serial Ports*** utility located in the **Start Menu** under **Program Files\Sokkia**. Select the <Uninstall> button in the Configure USB Virtual Serial Ports screen, then confirm the action to remove the currently installed drivers.

Windows XP New Hardware Setup

1. Connect the USB port of the GPS receiver to a USB port on the PC.
2. Turn the GPS receiver on.
3. ***The Found New Hardware*** wizard appears. ***Note***: On some computers, this can take a very long time (30 minutes). Click **<Next>.**
4. Select ***Install from a list or specific location (Advanced)*** and click **<Next>.**
5. Clear the ***Search removable media*** check box field
6. Select the ***Include this location in the search field***.
7. Click **<Browse>** to find and select the folder containing the ngspusb.inf and ngpsser.inf install files.
8. Click **<Next>**. ***Note***: Depending on your computer's Driver Signing Policy, Windows may refuse to install this driver or may display a warning. For information, see *Windows Driver Signing Explanation*.
9. Click **<Finish>** to complete the driver installation.
10. See *Initializing Com Ports*.

Windows 2000 New Hardware Setup

1. Connect the USB port of the GPS receiver to a USB port on the PC.
2. The ***Found New Hardware*** wizard appears. Click **<Next>**.
3. Select **Search for a suitable driver for my device** and click **<Next>**.
4. Select **Specify a location** and click **<Next>**.
5. Use the **<Browse>** button to find and specify the folder containing the ngspusb.inf and ngpsser.inf install files.
6. Confirm that the driver found is ngpsusb.inf and click **<Next>**. ***Note***: Depending on your computer's Driver Signing Policy, Windows may refuse to install this driver or may display a warning. For more information, see *Windows Driver Signing Explanation*.
7. Click **<Finish>** to complete the driver installation.
8. See *Initializing Com Ports*.

Initializing COM Ports

After installing the GPS USB driver, Windows will detect each of the receiver's three virtual COM ports (USB1, USB2, and USB3) and will begin to initialize them.

Windows XP - As each port is detected, the ***Found New Hardware*** wizard will appear. Complete the following steps for each port:

1. Select Install the software automatically (Recommended) and click <Next>.
2. Click **<Finish>.**

Windows 2000 – initializes automatically

The new COM ports corresponding to the receiver's USB1, USB2, and USB3 ports will be numbered sequentially following the existing ports in the PC, and are ready to use with any application that communicates with the receiver's serial COM ports.

Note: The assignment of COM port numbers is tied to the USB port on the PC, which allows you to switch receivers without Windows assigning new COM ports. However, if you connect the receiver to a different USB port, Windows will detect the receiver's presence on that USB port and assign three new COM port numbers.

Windows Driver Signing Explanation

These drivers have not been certified by Microsoft's Windows Hardware Quality Lab (WHQL). Depending on how your administrator has configured your computer, Windows 2000 or XP will:

- Ignore device drivers that are not digitally signed
- Display a warning when they detect device drivers that are not digitally signed (the default)
- Prevent you from installing device drivers without digital signatures.

Since the current version of GPS USB drivers are not digitally signed, the computer's policy must be either Ignore or Warn to enable the drivers to be installed. To change the Driver Signing Policy:

1. Double-click on ***System*** in the **Control Panel**.
2. Click the ***Hardware*** tab.
3. Click the **<Driver Signing>** button.
4. Click either **Ignore** or **Warn** in the ***File signature verification*** box.
5. Click **<OK>** to accept the new policy.
6. Click <OK> to close the System Properties dialog.

Unplug the GPS Receiver USB cable, plug it back in and follow the installation instructions described above.

Customer Service

Please contact your local Sokkia representative if you have any questions or if you encounter problems installing or using the software provided.

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