

App Note - What to do if an XDL Rover 2 will not communicate with your PC

Important Notice:

Please do not use any PDL Rover or XDL Rover (1) chargers or charging cables with the XDL Rover 2. Please use only the 100948-00 (serial) or 81994-02 (USB) cable to charge and program the XDL Rover 2. The 86987-10 cable was used with the XDL Rover (1) and is incompatible with the XDL Rover 2. It might cause an electrical malfunction during recharging of the XDL Rover 2 that can cause the Rover 2's electronics to burn out.

If you have been using the old XDL Rover (1) charging cable (86987-10), Trimble Integrated Technologies will replace the old cable with a new serial cable (P/N 100948-00) or USB cable (P/N 81994-02).

The Bluetooth mode in the XDL Rover 2 temporarily disables the radio's data port. Follow these steps to ensure that the XDL Rover 2 is in Data mode or in Bluetooth mode:

1. Press the power button once to power on the XDL Rover 2. A short firm press is needed to switch the device on.
2. When the XDL Rover 2 powers on, the green Power LED will switch on followed by a short blink of the RX (red) LED. The short blink is very quick and can be easily missed. This RX LED flash verifies that the XDL Rover 2 has successfully turned the radio modem on.
3. Press the Power button with a second short, firm press to put the XDL Rover 2 into Bluetooth mode. The blue Bluetooth LED will switch on and stay constant till the Bluetooth chip has finished initializing. After initializing the Bluetooth LED will start blinking rapidly to indicate it is ready to be paired with. Data port on the XDL Rover 2 will be disabled in this mode.
4. Press the power button with a firm short press again to switch the Bluetooth off. This is indicated by the blue Bluetooth LED switching off.

The XDL Rover 2's power button can at times become unresponsive. When this occurs the XDL Rover 2 cannot switch modes. Firmly press the power button a few times, with a pause between each press, to determine if the XDL Rover 2 has switched modes or not will work.

Connecting the XDL Rover 2 to a PC via a USB Port

When connecting the XDL Rover 2 to a PC's USB port, we recommend using an XDL Rover 2 USB-to-serial cable (Part Number 81994-02). When using the 81994-02 cable, the PC will

automatically assign the next available COM port. ADLCONF will then list the COM port and the user can use that COM port to connect to the XDL Rover 2.

The 81994-02 cable uses a FTDI USB-Serial chip. We recommend that the user follow the instructions provided with the 81994-02 cable to download and install the necessary driver from FTDI website. We do not recommend any third party serial-to-USB adapters or USB cables for configuring or upgrading the XDL Rover 2.

Clearing COM ports is a manual process. Please follow these steps to clear COM ports:

1. Right-click "Command Prompt" and choose "Run as Administrator"
2. Enter "set devmgr_show_nonpresent_devices=1"
3. Enter "start devmgmt.msc"
4. In the box that opens, select "Show hidden devices" in the 'view' menu.
5. Expand the section on COM ports and all the COM ports that have ever been created will be displayed. You can uninstall anything that you don't want by right-clicking and selecting "Uninstall." In the confirmation dialogue box that opens, you can also check the box that allows you to uninstall the drivers associated with the COM port.

If you have cleared all the COM ports and the XDL Rover 2 still will not link with your PC, you should contact Tech Support.

If, on the other hand, you can now link the radio to you PC, please go to <http://pacificcrest.com/support.php?page=updates>, download the latest version of ADLCONF and XDL Modem firmware for the XDL Rove 2 and upgrade the firmware in the radio. Then power-cycle the radio and recharge its internal battery before next use.