

ZEN Windows Driver Configurations

Board Configurations

There are currently two versions of the ZEN receiver in production.

BD339 is our standard Zonge High-Resolution Receiver.

BD 357 is the Zonge High Resolution, High Speed Receiver.

When these boards were first released they used the same USB integrated circuit for communication and used the vendor's default PID (Product Identification) and VID (Vendor ID). Unfortunately this configuration is not stable and results in the card randomly being recognized as a Microsoft Serial Ball Mouse or some such similar serial device. When this occurs, communication with the ZEN is unreliable.

The Windows problem has been solved by obtaining unique PID codes and creating signed drivers for the two ZEN receivers.

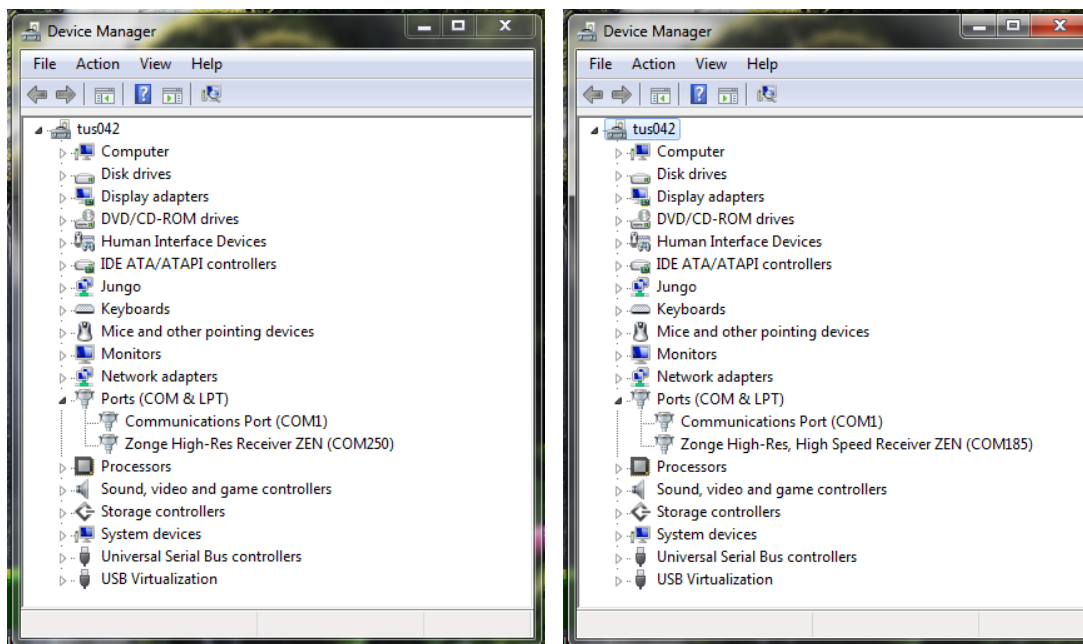
The VID remains unchanged and is 10C4.

The PID for BD339 is 899C.

The PID for BD357 is 89B1.

For boards shipped prior to June 2014 the PID will be the default vendor PID, i.e. EA60.

The PID can be verified by connecting the ZEN whilst running the Windows Device Manager. Look in the Ports (COM & LPT) tab. The below two examples shows how the boards show up in the Device Manager.



BD339

BD357

Figure 1

ZEN Driver Installation

There are two installation programs.
CP210xVCPInstaller_x64.exe
CP210xVCPInstaller_x86.exe.

Select the one that is appropriate for your computer.

This will install the drivers for both boards. Drivers supplied with ZEN systems prior to June 2014 may only recognize BD339. If BD357 is not recognized, reinstall the drivers from this disk.

NOTE: These drivers only work if the PID has been programmed on BD339 or BD357. All of these boards must be modified for the drivers to work.

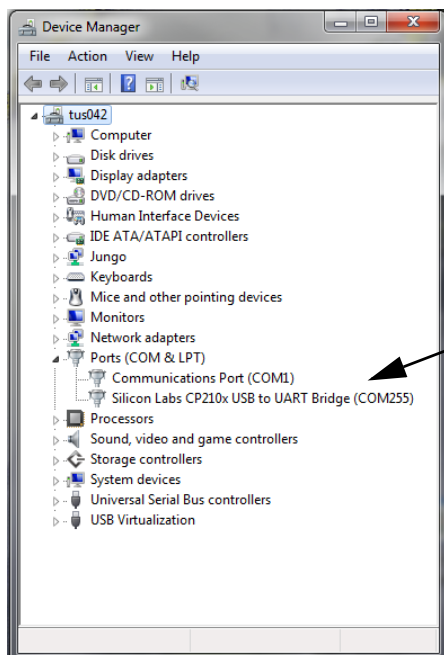
BD339 and BD357 PID Programming

WARNING: If you program the wrong PID value into the USB integrated circuit, you will not be able to recover. The card will need to be returned to Zonge International for repair. The USB integrated circuit can only be programmed once.

ZENs shipped before June 2014 do not have the Zonge PIDs programmed on the USB integrated circuit.

Perform the following steps to verify and program the PID:

1. Run the Windows Device Manager to verify that the boards show up as ZENs as shown in *Figure 1*. If they have not been programmed they will appear as a “Silicon Labs CP210x USB to UART Bridge,” as shown below in *Figure 2*, and you will need to program the PID.



This is a typical entry if the PID is not programmed.
The (COM xxx) number will vary.

Figure 2

- Run the CP21xxCustomizationUtility.exe program in the CP21xxCustomizationUtility directory. You should see the following GUI.

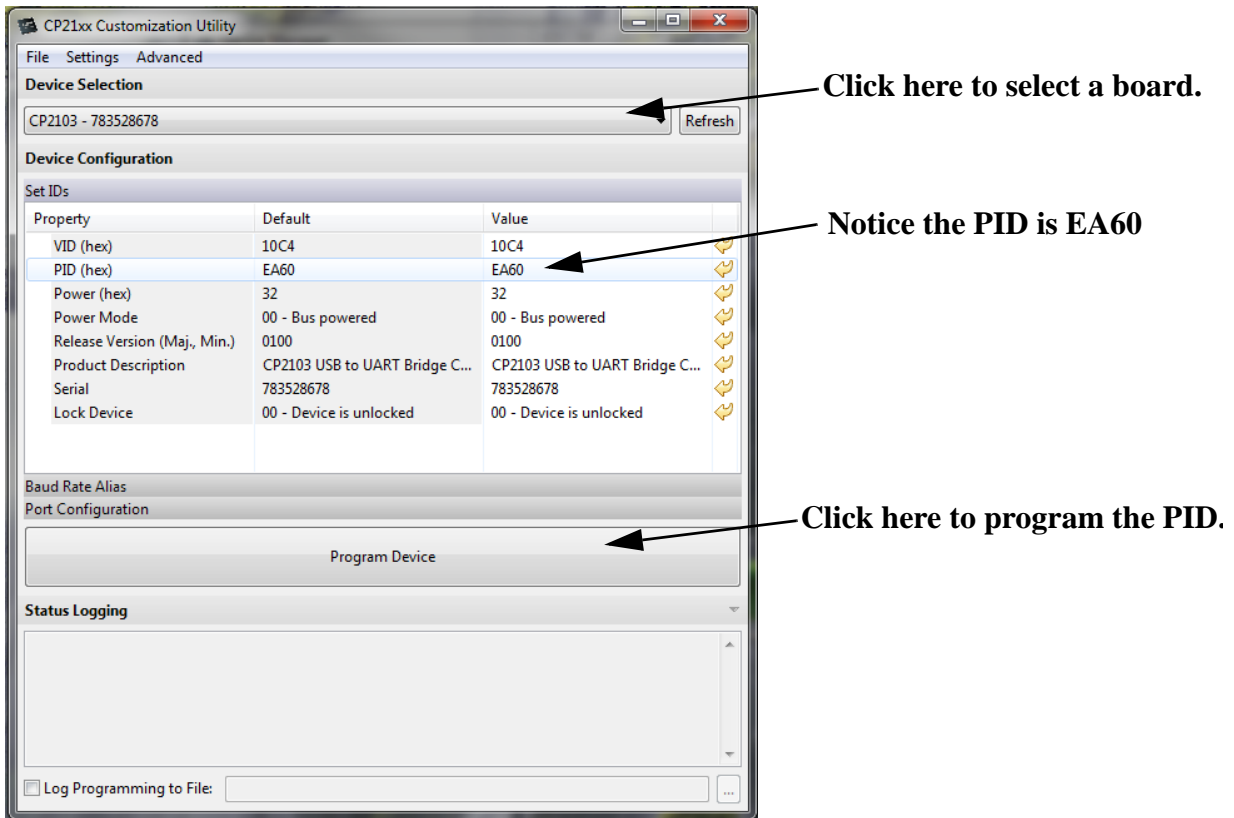


Figure 3

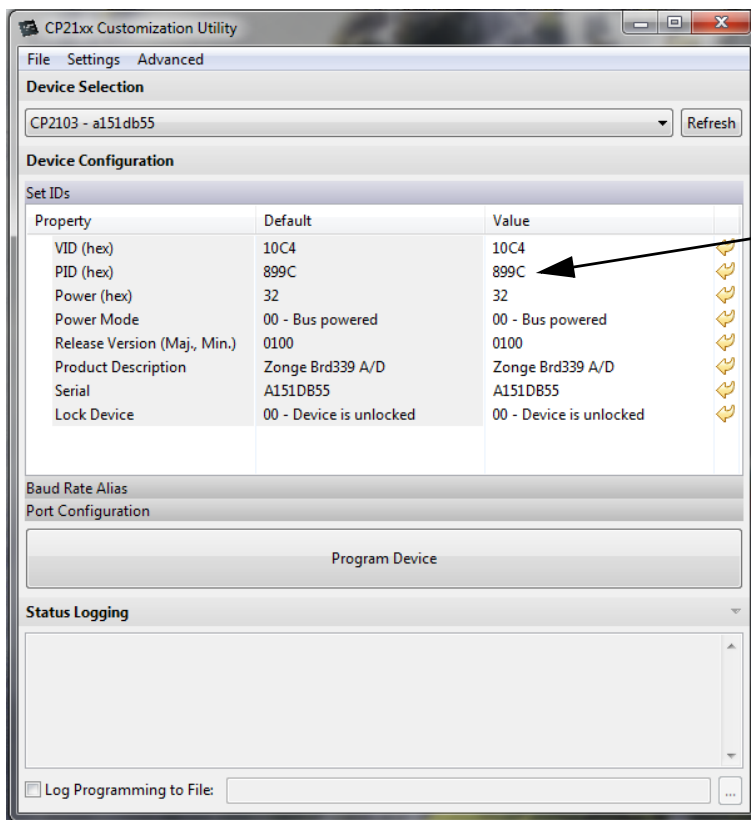
3. Change the PID

The PID should be 899C for BD339.

The PID should be 89B1 for BD357.

WARNING: If you program the wrong PID value into the USB integrated circuit, you will not be able to recover. The card will need to be returned to Zonge International for repair. The USB integrated circuit can only be programmed once.

Once the appropriate PID is entered into the Value column, click on Program Device. Be patient. It will take about a minute before the utility responds. Once it responds, click on the bar below Device Selection and select the next card. Select the appropriate PID and click on Program Device. Keep selecting cards until you have programmed all of the cards in the ZEN. After the PID is programmed, you will see a screen as shown in *Figure 4*. Notice that the Default PID is now 889C.



Notice the PID is now 899C after programming.

Figure 4