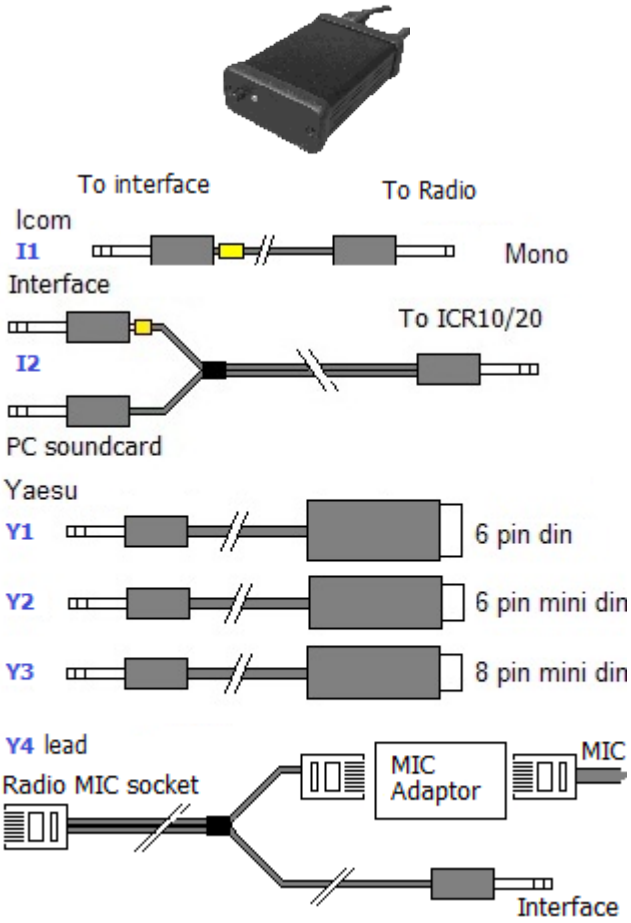
ZLP Electronics

Setting up the DigiMaster Universal USB TTL CAT Interface or the Universal TTL dongle.

Both these items are “universal TTL” interfaces and can be connected to many different radios. The interface is connected to the radio via an interchangeable connecting lead. (available separately). Swap radios, you may be able to simply swap the connecting lead and continue to use the same interface. (The above interfaces do not support RS232 levels found on some radios)...



- **Using**

ICOM I1 lead
ALL ICOM
C-IV enabled radios (except ICR10/20)

Using
ICOM I2 lead
ICR10/20.

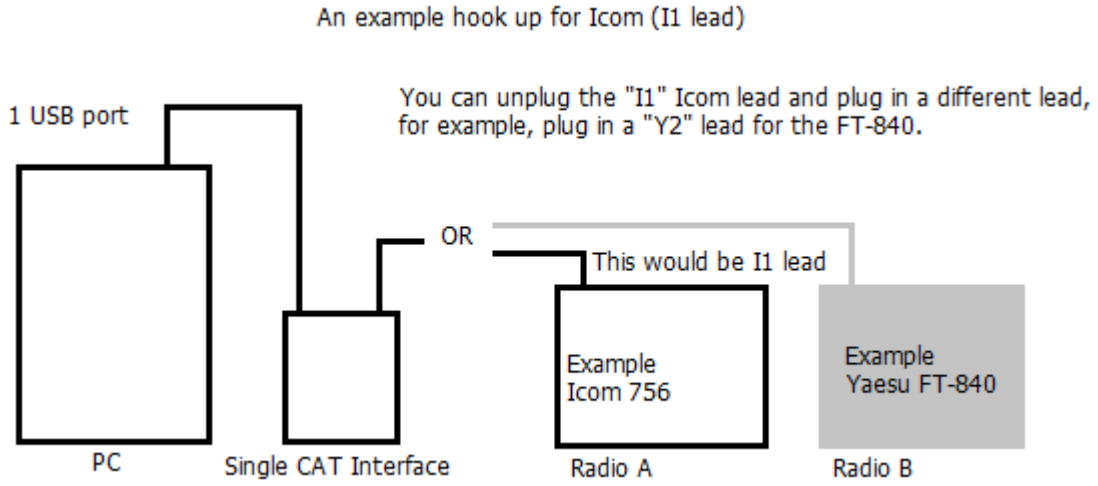
Using
YAESU Y1 lead
FT-736
FT-747
FT-767
FT-980
FT-990 rom 1.3
FT-1000 rom 6.0
FT-1000-D rom 6.0
Heath SB-1400
FRG-100
FRG-8800
FRG-9600

Using
YAESU Y2 lead
FT-757gx2 (not gx)
FT-840
FT-890
FT-900

Using
YAESU Y3 lead
FT-100
FT-817
FT-857
FT-897
All versions D/ND etc.

Plug the USB cable into any of your PC's powered USB sockets.

Simple!
Plug the CAT connecting lead into the radios CAT socket.
On an Icom radio this may also be referred to as a “CIV” socket or “remote” socket (A 3.5mm jack socket).



PLEASE. Take note to correctly identify your CAT socket before attempting to connect your CAT interface to your radio. Plugging your CAT into the wrong socket may damage the CAT interface plug. The CT62 (Y3 lead) is an 8 pin mini din plug and should be plugged into the radios 8 pin CAT socket. Plugging the 8 pin CAT plug into the Yaesu 6 pin data socket will cause obvious damage the CAT plug and will bend or break some pins in the plug. This does happen and you may be able to repair bent pins yourself using long nosed pliers (centre or one outside pin, or both). Damage caused to the CAT plug is NOT covered by your warranty.

The 8 pin plug of a returned interface.
This damage can only be caused by inserting it into the 6 pin data socket.
It can be repaired but a charge will be made.

Turn on the DigiMaster USB CT62 or your DigiMaster USB CT17.
When using the DigiMaster USB CT62 you may find that the interfaces green power led is dimly illuminated when connected to the radio but with the interface is switched off. This is perfectly normal and the led will be much brighter when the interface is turned on.
If this is the first time that you have attached the interface to your PC's USB port then Windows will detect the new device automatically. Depending upon your version of Windows, Windows may or may not install the drivers automatically. At the bottom right hand side of the screen Windows will inform you that a new device has been detected. If Windows prompts you for the driver then it can be downloaded from the website (Driver page) or you can allow Windows to search the net for the latest

driver (recommended). If you download the driver from the website, then it will need to be unzipped and saving on your PC before you tell Windows where to find it.If Windows has automatically installed the driver then it Windows will tell you that the device has been installed and is ready to use.
Full manufacturer's Instructions for installing the driver are available on the driver download page.
If you don't know what comport Windows has allocated to the DigiMaster USB CT62 or your DigiMaster USB CT17, then use the Device Manager guide to determine the new comport.
If you don't know how to use device manager then use the guide to using device manager.
When the driver has been installed and you have determined the comport assigned by Windows, you can use the DigiMaster USB CT62 or your DigiMaster USB CT17.
Windows may provide a different virtual comport for a different USB sockets, if you move the connection your software settings may need to be changed.
Before starting HRD, your DigiMaster USB CT62 or your DigiMaster USB CT17 MUST be turned on.
Once the DigiMaster USB CT62 or DigiMaster USB CT17 has been turned on, you will get the USB "ack" sound from the PC.
You can now start HRD.
To "connect" your radio to HRD select your radio manufacturer from the drop down list.
Then select your radio type, (Not all software supports all radios) if your model is not shown then HRD does not support your radio you will need to find software that does.
Select the comport provided by Windows for the DigiMaster USB CT62 or your DigiMaster USB CT17.
Select the same baudrate that has been set on your radio. (Consult your radio manual if you are unsure).
If you are using an Icom also select the CIV address (use default if you do not know what this is).
You do not need to select RTS or DTR.
Click on "connect".
HRD CAT program will "connect" to your radio.

REMEMBER: Your radio may have options that need to be set up via the radios menu system, eg, the FT857 may need menu 19 and 20 settings adjusted, (and 85 to OFF) these affect baudrate and select the use of the multipurpose CAT/LINEAR/TUNER socket.
The functionality provided by HRD and the interface is entirely dependent upon your radio model, generally, the more modern the radio the more CAT functionality it will have.
CAT and DATA are different things; you use a CAT interface for CAT, and a DATA interface for DATA. You get no sound through a CAT interface and a CAT interface will not operate with a DATA mode program such as DM780 etc. If you wish to operate DATA modes then you would also need a DATA interface.

To test your DigiMaster USB CT62 or your DigiMaster USB CT17.
Download the test program (Regardless of whether you have the Icom or Yaesu version of the interface).
Unzip the program and save it on your PC, or run it from where it is.

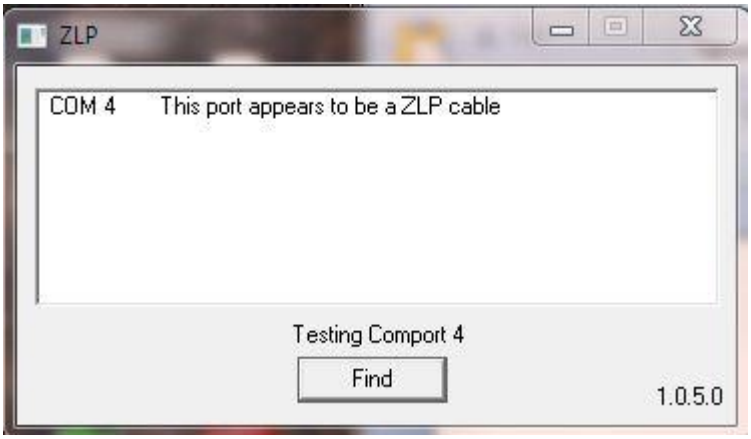
[1] Remove ALL cables from the DigiMaster USB CT62 or your DigiMaster USB CT17 interface EXCEPT the USB cable.

[2] Turn the interface ON.

[3] Run the loopback test program.

If the interface is functioning correctly, the loopback test program will identify the comport used by the DigiMaster USB CT62 or the DigiMaster USB CT17 and report that a ZLP interface is connected.
If the test is successful and you still cannot get a connection, then your parameters will most likely be wrong.

IF YOU DO NOT FOLLOW THE INSTRUCTIONS YOU WILL NOT GET THE CORRECT RESULTS.



No connection? Double check the connections, run the test program as described above and finally try a full reset of the radio.