

Actisys USB to IrDA adapter for IQ® Insight in Windows 7

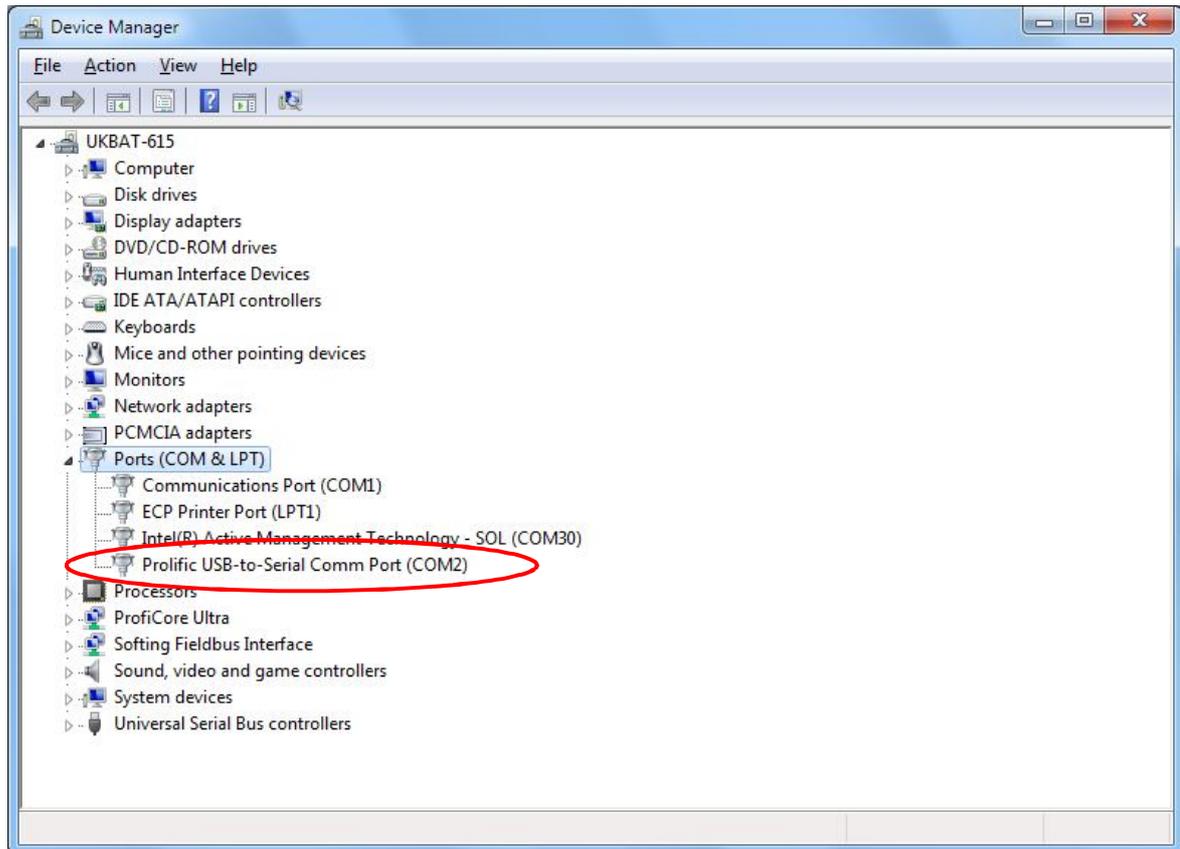
Introduction

Rotork have tested the Actisys ACT-IR120UD (or ACT-IR100UD) USB to IR adapter with IQ® Insight and recommend this product for communication with your Rotork IQ mk2, IQT mk2, IQ Pro or IQT Pro actuator. Other Infrared headers may be compatible but they might require IRCOMM2K to simulate a serial port.

Instructions below detail how to correctly install device drivers for the Actisys ACT-IR120UD (or ACT-IR100UD) for use with Rotork IQ® Insight.

Installation Procedure

- 1) **DO NOT INSTALL THE SOFTWARE SUPPLIED WITH THE ACTISYS IRDA HEADER.** The drivers do not work on Windows 7 and can cause blue screen errors when USB serial devices are plugged in. If the default drivers have already been installed, remove these through the device properties window in Device Manager.
- 2) Install the Prolific driver installer included in the **Windows 7 Support** folder within the **IQ® Insight** download, **PL2303_Prolific_DriverInstaller_v1.8.0**. The driver installer is compatible with Windows 98 through to Windows 7, 32-bit and 64-bit versions. The Actisys IrDA header uses the standard Prolific chipset for the USB serial port part of the device.
- 3) Plug in the ACT-IR120UD (or ACT-IR100UD) and it should be recognised and installed by Windows.
- 4) Check to see which COM port has been assigned to the IrDA header by finding the device in **Device Manager**. Double click on, **Ports (COM & LPT)** to show the devices in this section. An entry should be visible named, **Prolific USB-to-Serial Comm Port**. If many devices are connected then unplug and plug in the Actisys IrDA header while observing **Device Manager** to see which port disappears and reappears. The Actisys IrDA header is COM2 in the example given.



- 5) Install the ACT-IR120UD configuration tool from the **Actisys IrDA** folder in the **IQ® Insight** download. Follow the on screen prompts to complete installation and then navigate the start menu to open the configuration tool.

Alternatively copy the below application directly to your PC and double click to open the configuration tool. It may take a few seconds for the program to open.



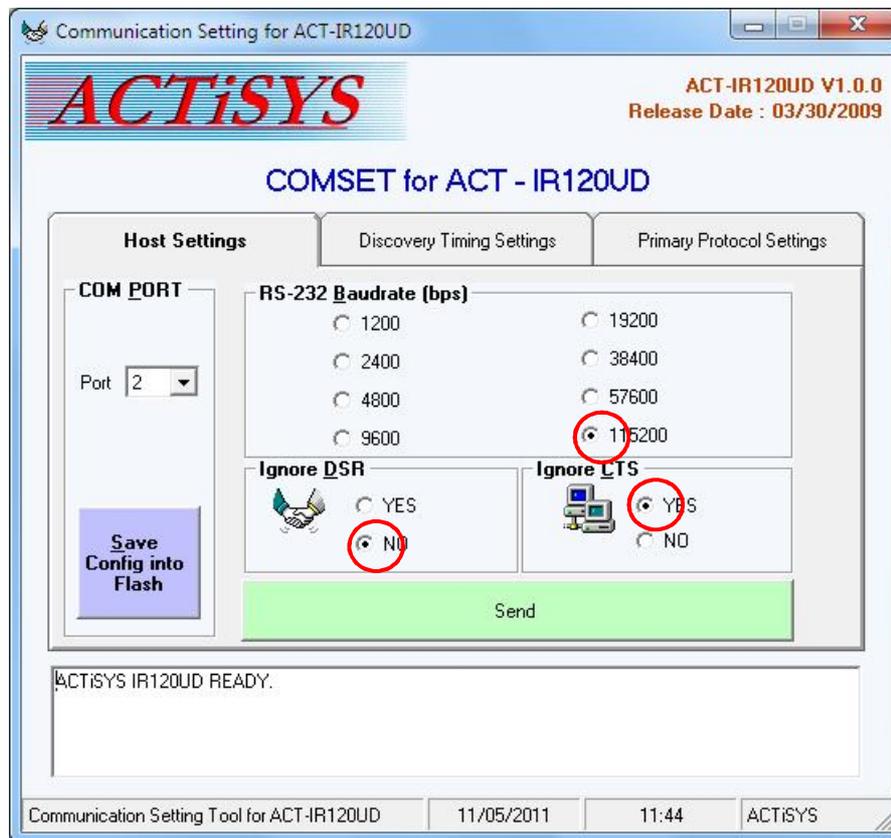
ComSet_IR120UD.exe

- 6) The IR120UD must be configured prior to first use. To configure the IR120UD, it must be disconnected from any IrDA devices. Move it away from other IR devices and then unplug and plug in the USB connector to reset it.

Run the ACT-IR120UD configuration program and select the COM port the device is attached to (COM2 in this example). Set the below settings:

- **RS-232 Baudrate (bps)** = 115200
- **Ignore DSR** = NO
- **Ignore CTS** = YES

Click **Send**, then click **Save Config into Flash** and confirm the text status box reports the save was successful. Only clicking **Send** will update the IrDA header settings but they will reset if the IrDA header power is cycled. Only clicking **Save Config into Flash** will do nothing as new settings have not been sent to the device.



Settings can be checked by performing the following procedure: close the configuration tool, unplug the IrDA header, plug in the IrDA header and open the configuration tool again. Saved IrDA header settings will be shown.

The Actisys IrDA header is now ready for operation with IQ® Insight.

Installation Tips

- The COM port assigned to the ACT-IR120UD will change for different PCs and different physical ports on the same PC. Use Device Manager → Ports to see what COM port number the IrDA header has been assigned. It is possible to reassign the port number from this location.

ACT-120UD LED Behaviour

- No LED illumination indicates the IrDA header is not powered or not currently connecting to a device. If this state remains during connection to an actuator, repeat the IrDA header configuration procedure and attempt connection again.
- LED flashing once every 3 seconds indicates connection to another IrDA device is in progress.
- Rapid LED flashing indicates successful connection to an IrDA device. The LED flash speed is based on the data transfer between the IrDA header and IrDA device.