How to start using radino32

Downloads

Before start using the radino32 module with the Arduino IDE we need to download the libraries in this web page (we are using the version 24) and the USB serial drivers here.

We also need the version 1.6.0 or 1.6.1 of the Arduino IDE. Our module won't work with the future versions.

Windows

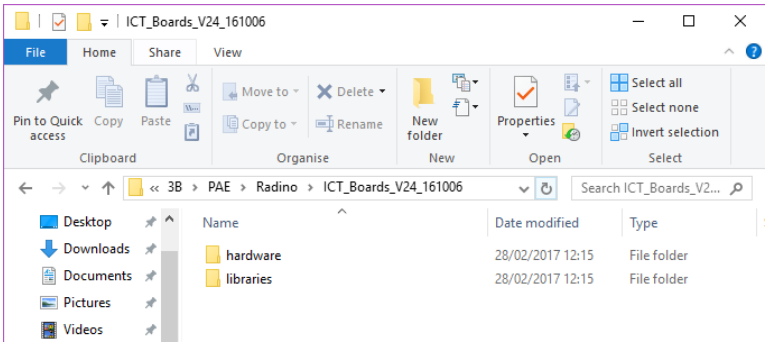
If we are using windows 8 or windows 10, our computer won't recognise the device so we need to disable the driver signature verification. This is a bit dangerous because this functionality protects the PC from bad or broken drivers.

Anyway, we needed to do it for the project so in this page you can find the steps to follow.

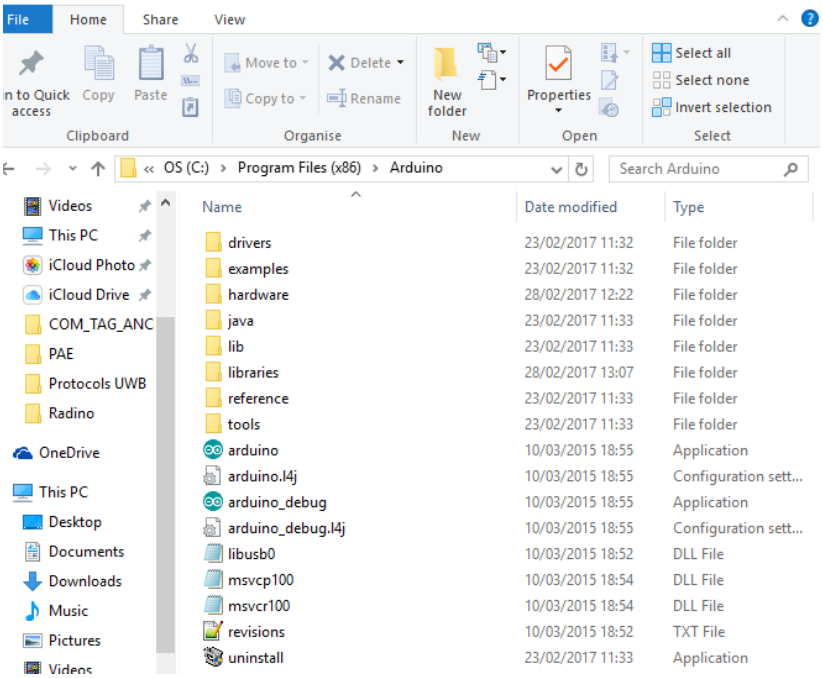
Installation

Now that our PC recognises the module, we can start installing everything. First, I would install the Arduino IDE and the USB serial drivers (if you haven't installed them before).

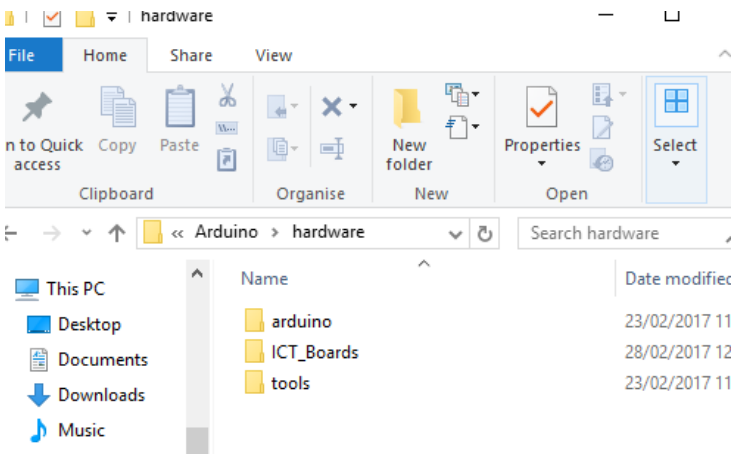
The next step is to unzip the folder of the libraries that we downloaded. If we go to the unzipped folder, we see that there are 2 folders inside (hardware and libraries).



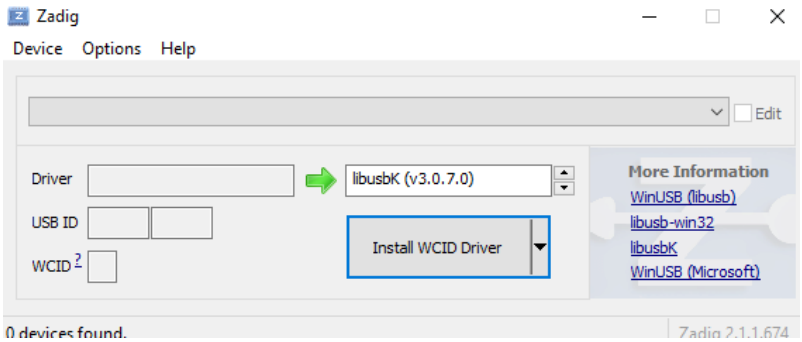
We have to copy these folders in the Arduino folder (it uses to be here: **C:\Program Files (x86)\Arduino**). We can see that in the Arduino folder there are already 2 folders with the same name. We have to merge them (libraries with libraries and hardware with hardware).



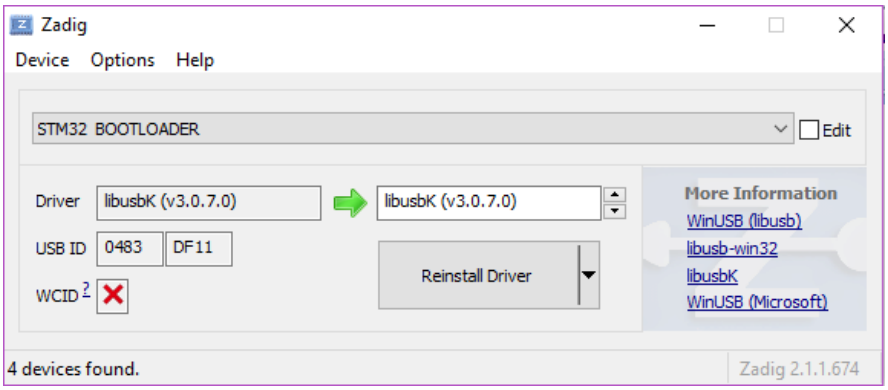
After that, we are going to install the drivers in the radino32. We have to go to the folder hardware (the one inside the Arduino folder).



Now we go to ICT_Boards, stm32l1, driver, win and zadig_2.1.1. The next screen will appear:



We go to Option, List all devices. We should see STM32 BOOTLOADER.



When we see it, we click Install WCID Driver.

If we don't see STM32 BOOTLOADER we have to press and hold BSL and RST buttons and then release the RST button and finally release the BSL button. Now we should see STM32 BOOTLOADER in the list but if we don't see it, we need to keep doing this.

Arduino IDE

Once we installed everything, we can open the Arduino IDE.

We need to go to "Tools", "Board", "Radino32 USB-LOAD".

Then, "Sketch", "Import library", "radino32".

Now, if we want to execute the demo, we go to "File", "Examples", "radino32", "sw1000_ranging_demo".

Before uploading a program to the module, we have to reset it with the same steps we used before: we have to press and hold BSL and RST buttons and then release the RST button and finally release the BSL button.

Once the program is uploaded, we have to disconnect the USB and connect it again to see something in the serial port.