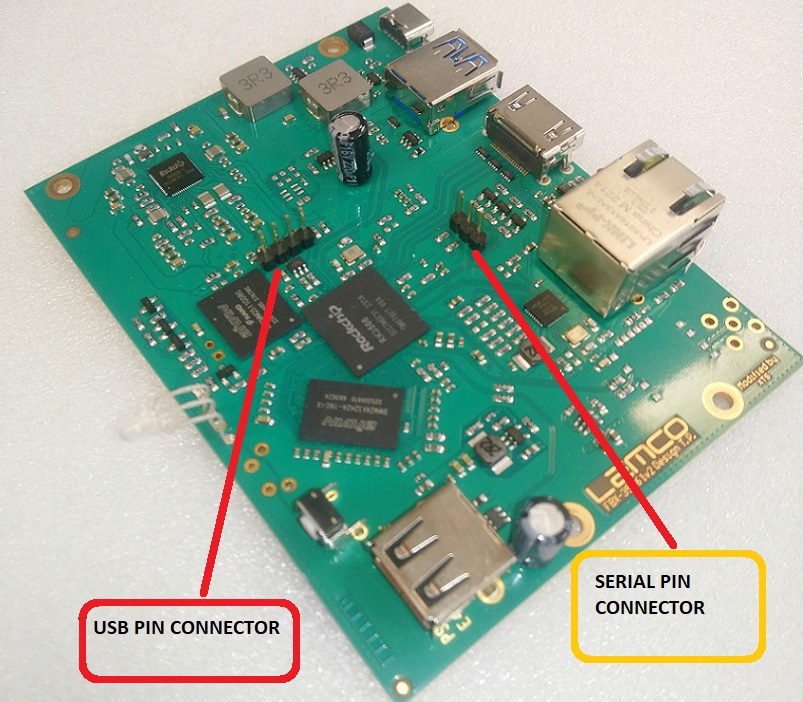
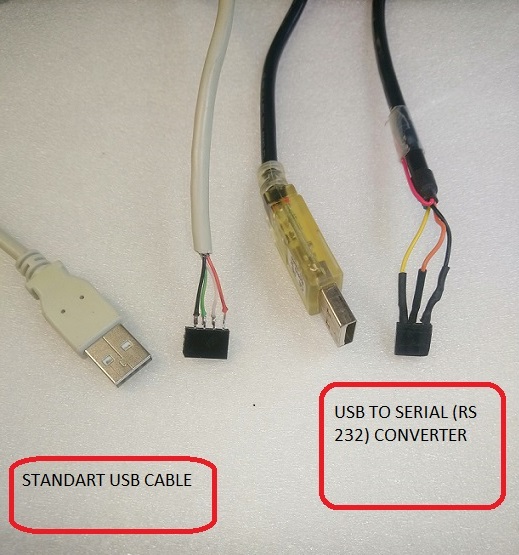
**FBX-3566 / FBX-3566W**

**Programming and test procedures**

1. **Below you can find the two connectors that we must use to program the device:**
   1. **USB connector (Red)**
   2. **UART connector (Yellow)**

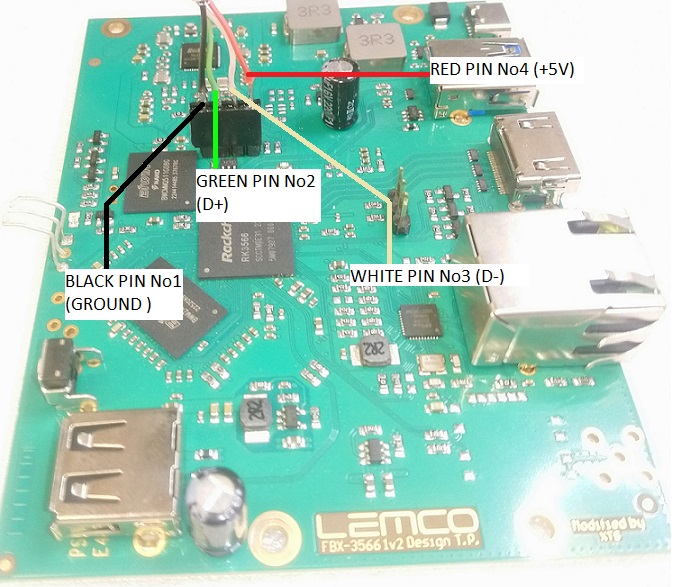


1. **The cables that we will need are the following:**
   1. **Standard USB cable. USB Type-A to female PIN header**
   2. **Standard RS232 UART cable or USB to UART cable.**



**Programming procedure**

* Initially the flash memory of the device is completely blank.
* To program it, we need first to install Rockchip**\_DriverAssitant\_v5.1** to a Windows PC.
* Then, connect the USB cable (Red) as shown below with correct orientation:



**Programming – Scenario A**

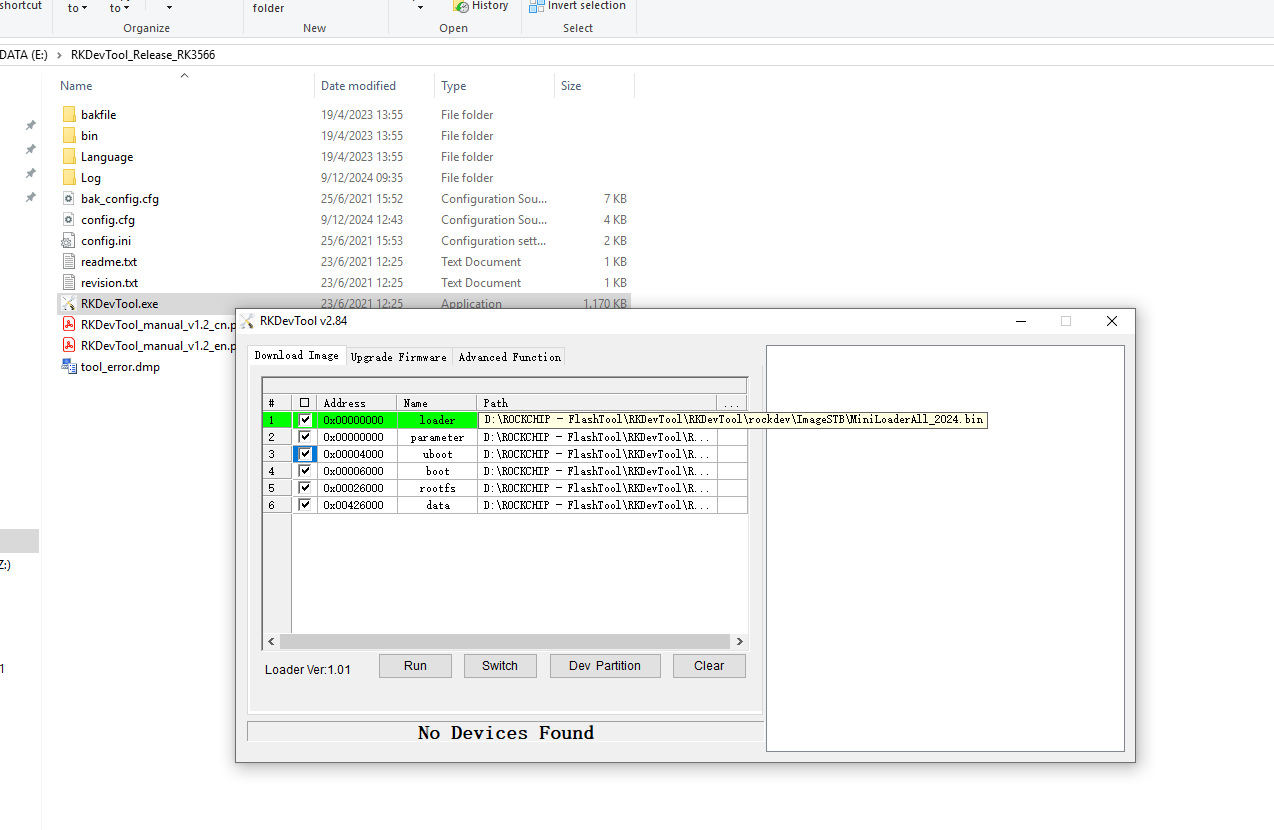
* Connect the device to the power, using the USB-C connector using a power supply of 5VDC / 2A.
* Run RKDevTool
* Set the correct:
  + Loader
  + Parameter
  + Uboot
  + Bootrootfs
  + data

paths from **Image** folder

\*To set the folder click the white cell (next column from path)

* Click all checkboxes

Check the following screenshot!

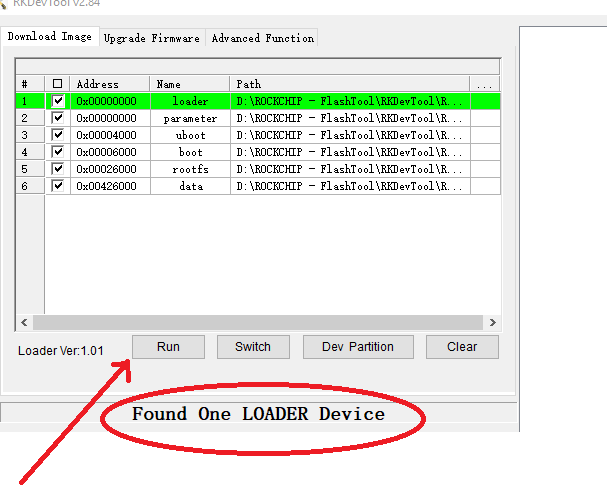


* Check if LOADER has been found!

A close up of a screen

Description automatically generated

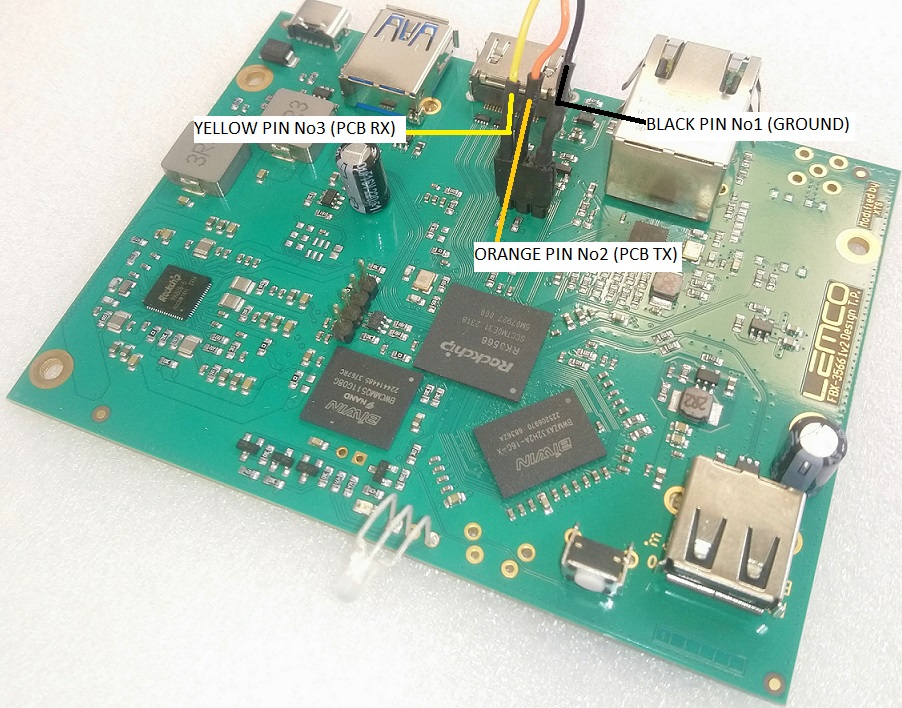
* If yes, press **Run button**. **IF NOT PLEASE PROCEED TO SCENARIO B.**
* Wait 3min approx. to finish the programming
* When the programming is finished, shut down the device and unplug the USB cable!



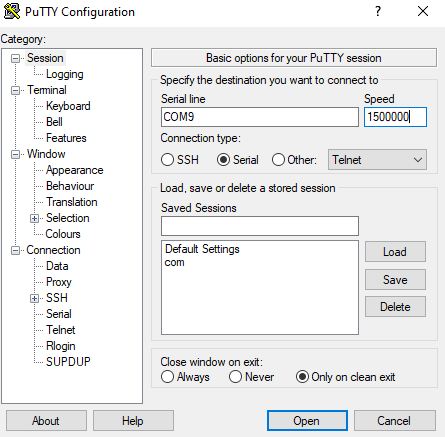
**Scenario B**

**If the flash memory is not empty or because Scenario A has failed for any reason you need to proceed with the following programming procedure.**

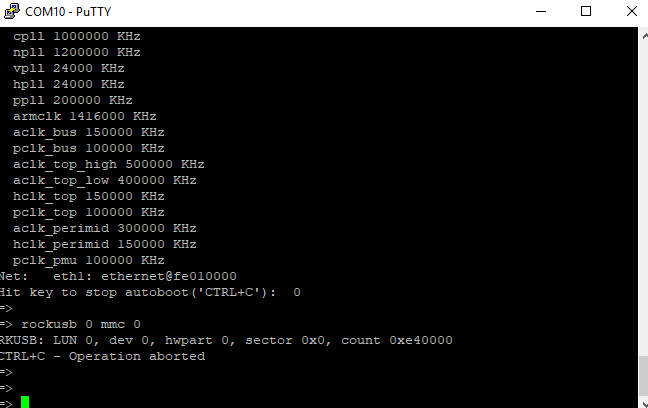
* Connect the UART cable (USB to serial cable) as depicted below:



* Download and run Putty software with the following settings:

**

* Set power to device and immediately press CTRL+C



* Write the command: **rockusb 0 mmc 0” command**
* Memory flash is empty now.
* Proceed with standard programming process - Scenario A

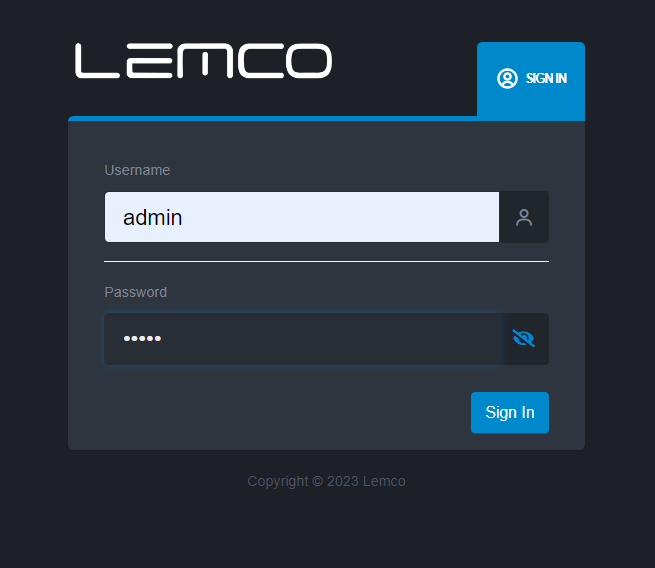
**How to test the device**

* Connect the HDMI out of the device to a TV monitor.
* Connect the RJ45 cable from the device to your network.
* Power up the device using USB Type C cable connector and a power supply of 5VDC / 2A.
* During power up, you must see the “LOADING” image. If you see this, that means HDMI output is ok!
* Next, open a browser (eg. Chrome or Firefox), found the IP of the device (by default the device has DHCP option enabled) and put the following url of the device to internet browsers’s address bar as follows:

<http://xxx.xxx.xxx.xxx/serial.php> \* xxx.xxx.xxx.xxx is the local IP of the device

Example: <http://192.168.1.115/serial.php>

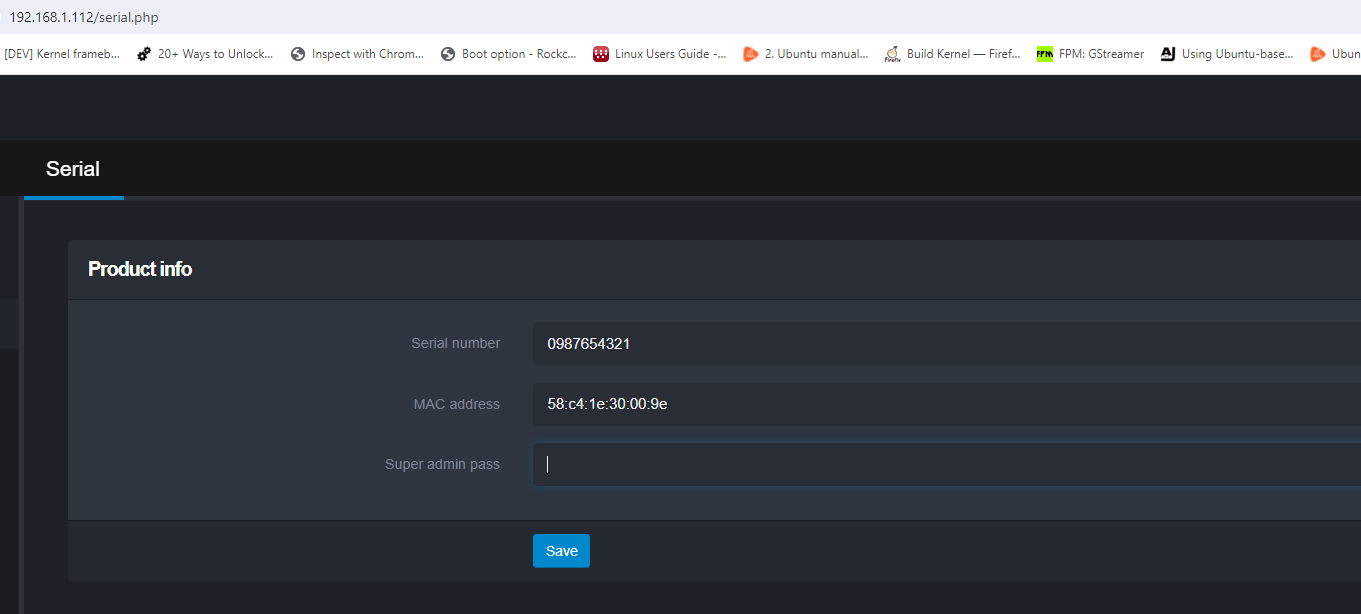
1. If everything is ok, you will see the login screen as follows:



Username: admin

Password:12345

1. From the following page:
   * Set serial number of the device. (It will be provided by us) For the demo use: 1112240001
   * Set MAC address: (It will be provided by us) For the demo use: 58:C4:1E:30:01:9E
   * Set the Super admin password: lemco:2006
   * And click the Save button.



If the above step is successful, then the test procedure is finished since the network of the device and the web server is working ok!

Thank you.