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Firmware Technical Team



Repairing damaged Amlogic control boards

Items needed :

- 1- Flash drive with less than 16 GB memory
- 2- Original or premium OTG conversion
- 3- Computer
- 4- Micro USB cable (Android)

Before starting work, remove the control board and place it on a non-conductive surface. Be sure to disconnect all the sockets and nothing is connected to the control board, not even the LAN cable.

- 1- Download the recovery file or the AML version of your device and it should be as below:

www.Vnish.ru	-----	https://t.me/Vnish_ru	Size
 aml_sdc_burn		8/9/2022 11:35 AM Configuration sett...	1 KB
 aml_sdc_burn.UBOOT.ENC		8/9/2022 11:35 AM ENC File	800 KB
 aml_upgrade_package_enc		8/9/2022 11:35 AM PowerISO File	24,599 KB

www.Vnish.ru ----- https://t.me/Vnish_ru

And then put it on the flash like installing the stock version

You can download stock firmware for installing it from below link :

[Click to Download Stock Firmware](#)

Stock firmware needs for last part to install stock firmware.

2- Then install the Python software , it's inside the software folder .

When installing the file, be careful to tick Add python.exe to Path as shown in the photo. (This option allows you to execute commands through Command or CMD.exe)



After installation, run the commands as shown in the picture below.

- 1- The first command to ensure the complete installation of Python software
- 2- The second command to install the **pyamlboot** package
- 3- The third command to ensure the installation of the required package
- 4- The fourth command to show the version of the package and show its location

```
C:\Users\Navids\Desktop\cmd.exe
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\Users\Navids\Desktop>python --version 1
Python 3.12.0

C:\Users\Navids\Desktop>pip3 install pyamlboot 2
Collecting pyamlboot
  Downloading pyamlboot-1.0.0-py3-none-any.whl (25.5 MB)
    25.5/25.5 MB 962.2 kB/s eta 0:00:00
Requirement already satisfied: pyusb in c:\users\navids\appdata\local\programs\python\python312\lib\site-packages (from pyamlboot) (1.2.1)
Requirement already satisfied: setuptools in c:\users\navids\appdata\local\programs\python\python312\lib\site-packages (from pyamlboot) (68.2.2)
Installing collected packages: pyamlboot
Successfully installed pyamlboot-1.0.0

[notice] A new release of pip is available: 23.2.1 -> 23.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip

C:\Users\Navids\Desktop>pip3 list 3
Package Version
-----
pip      23.2.1
pyamlboot 1.0.0
pyusb    1.2.1
setuptools 68.2.2

[notice] A new release of pip is available: 23.2.1 -> 23.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip

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C:\Users\Navids\Desktop>pip3 show pyamlboot 4
Name: pyamlboot
Version: 1.0.0
Summary: Amlogic SoC USB Boot utility
Home-page: https://github.com/superna9999/pyamlboot
Author: Neil Armstrong
Author-email: superna9999@gmail.com
License: Apache 2.0
Location: C:\Users\Navids\AppData\Local\Programs\Python\Python312\Lib\site-packages
Requires: pyusb, setuptools
Required-by:

C:\Users\Navids\Desktop>_

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```

According to the fourth command, find the following path and replace the files in the **S400** folder attached in this tutorial with the existing files.

Attention : S400 files in software folder .

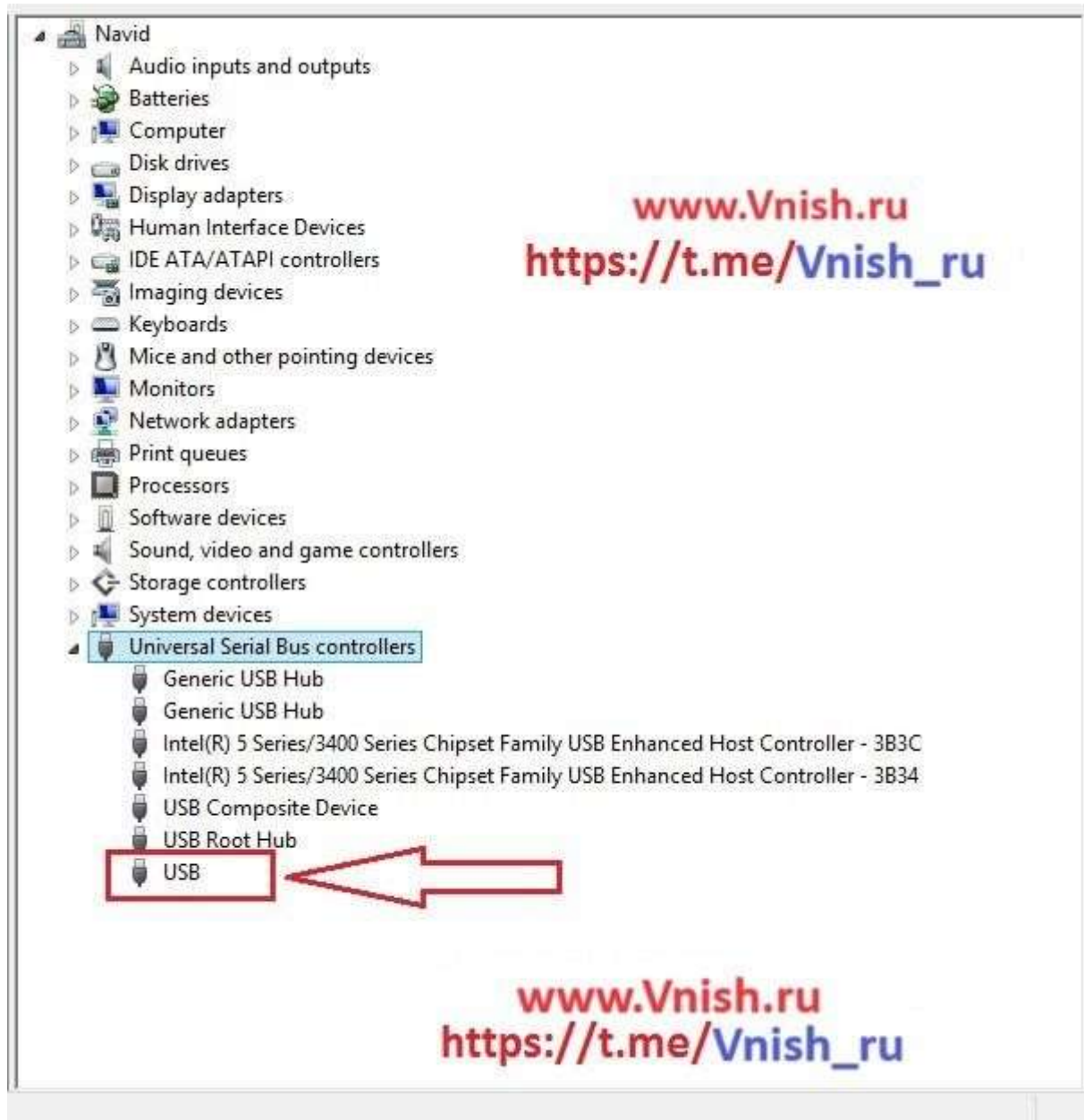
5- Connect the control board to your computer with the USB cable that you prepared in advance. Also, short circuit the jumper JP2 on the control board. Then turn on the power of the control board and then be sure to open the jumper.

Be sure to pay attention to the photo below

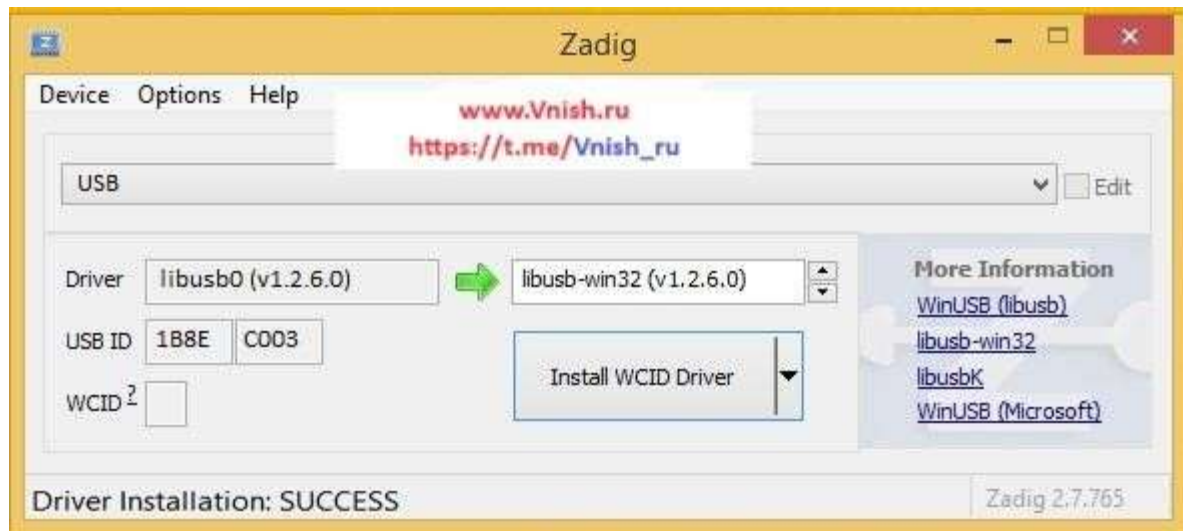


Now, the device must be connected to your device as shown in the picture below. In different operating systems, its name may be different and it is also known by names such as: WinUSB or libUSB. In my system it is known as USB.

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If the operating system recognizes your control board as Unknown, you can use Zadig software or any other software to install the programmer driver.



You can install Zadig software , it's inside the software folder .

Now type the following command in Command:

```
C:\Users\Navids\Desktop>pip3 show pyamlboot
Name: pyamlboot
Version: 1.0.0
Summary: Amlogic SoC USB Boot utility
Home-page: https://github.com/superna9999/pyamlboot
Author: Neil Armstrong
Author-email: superna9999@gmail.com
License: Apache 2.0
Location: C:\Users\Navids\AppData\Local\Programs\Python\Python312\Lib\site-packages
Requires: pyusb, setuptools
Required-by:

C:\Users\Navids\Desktop>boot.py s400
```

Type this command

If there is any problem in identifying your control board, you will receive the following error.

```

C:\Users\Navids\Desktop>boot.py s400
C:\Users\Navids\AppData\Local\Programs\Python\Python312\Scripts\boot.py:8: DeprecationWarning: pkg_resources is deprecated as an API. See https://setuptools.pypa.io/en/latest/pkg_resources.html
  import pkg_resources
Using AXG Family boot parameters
Traceback (most recent call last):
  File "C:\Users\Navids\AppData\Local\Programs\Python\Python312\Scripts\boot.py", line 130, in <module>
    usb = BootUSB(args.board, fpath, args.upath)
          ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "C:\Users\Navids\AppData\Local\Programs\Python\Python312\Scripts\boot.py", line 41, in __init__
    self.dev = pyamlboot.AmlogicSoC()
               ^^^^^^^^^^^^^^^^^^^^^
  File "C:\Users\Navids\AppData\Local\Programs\Python\Python312\Lib\site-packages\pyamlboot\pyamlboot.py", line 64, in __init__
    self.dev = usb.core.find(idVendor=idVendor, idProduct=idProduct)
               ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "C:\Users\Navids\AppData\Local\Programs\Python\Python312\Lib\site-packages\usb\core.py", line 1309, in find
    raise NoBackendError('No backend available')
usb.core.NoBackendError: No backend available

```

Otherwise, the image should be as follows:

```

Using AXG Family boot parameters
ROM: 3.1 Stage: 0.0
Writing c:\users\Navid\2345\appdata\local\programs\python\python311\lib\site-packages\files\s400\u-boot.bin.usb.b12 at 0xffffc0000...
[DONE]
Writing c:\users\Navid\2345\appdata\local\programs\python\python311\lib\site-packages\files\usbbl2runpara_ddrinit.bin at 0xffffc0000...
[DONE]
Running at 0xffffc0000...
[DONE]
Waiting...
[DONE]
ROM: 3.1 Stage: 0.0
Writing c:\users\Navid\2345\appdata\local\programs\python\python311\lib\site-packages\files\s400\u-boot.bin.usb.b12 at 0xffffc0000...
[DONE]
Writing c:\users\Navid\2345\appdata\local\programs\python\python311\lib\site-packages\files\usbbl2runpara_runfipimg.bin at 0xffffc0000...
[DONE]
Writing c:\users\Navid\2345\appdata\local\programs\python\python311\lib\site-packages\files\s400\u-boot.bin.usb.tp1 at 0x200c0000...
[DONE]
Running at 0xffffc0000...
[DONE]

```

Any message other than the above message means that the work has not been successful.

6- Wait (about 5 to 10 seconds) until the above message or image appears, then immediately disconnect the USB cable from the computer and immediately transfer the SD version file that you prepared on the flash drive to the control board (you need to disconnect the cable You only have 10 to 20 seconds to connect USB and flash to install the version on the control board.

Wait until the green light turns on. If the green light turns on, you have done the job successfully and after that you can install any firmware you want.

For more info and Support Contact us :

Website :

<https://www.vnish-official.ru>

Telegram :

https://t.me/vnish_official_support

