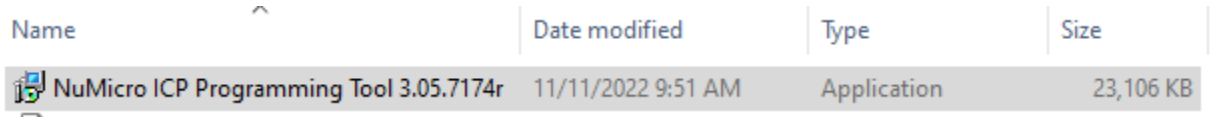
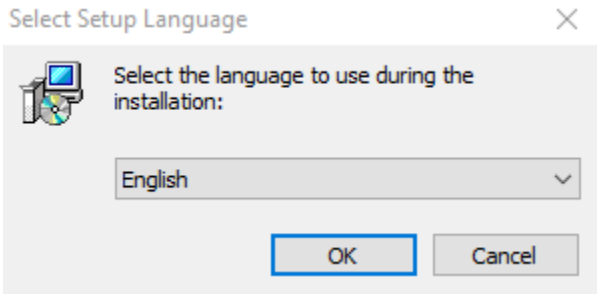
# How To Update the Cx50-2/cx35-1 Update Programmer

This document applies if you have already received a programmer at some point in the past and wish to replace its pre-loaded program with a newer version. Includes HMI SD card update instructions.

1. First download the file from the email or the link we sent you in order to install the program labeled. “NuMicro ICP Programming Tool 3.05.7174r”

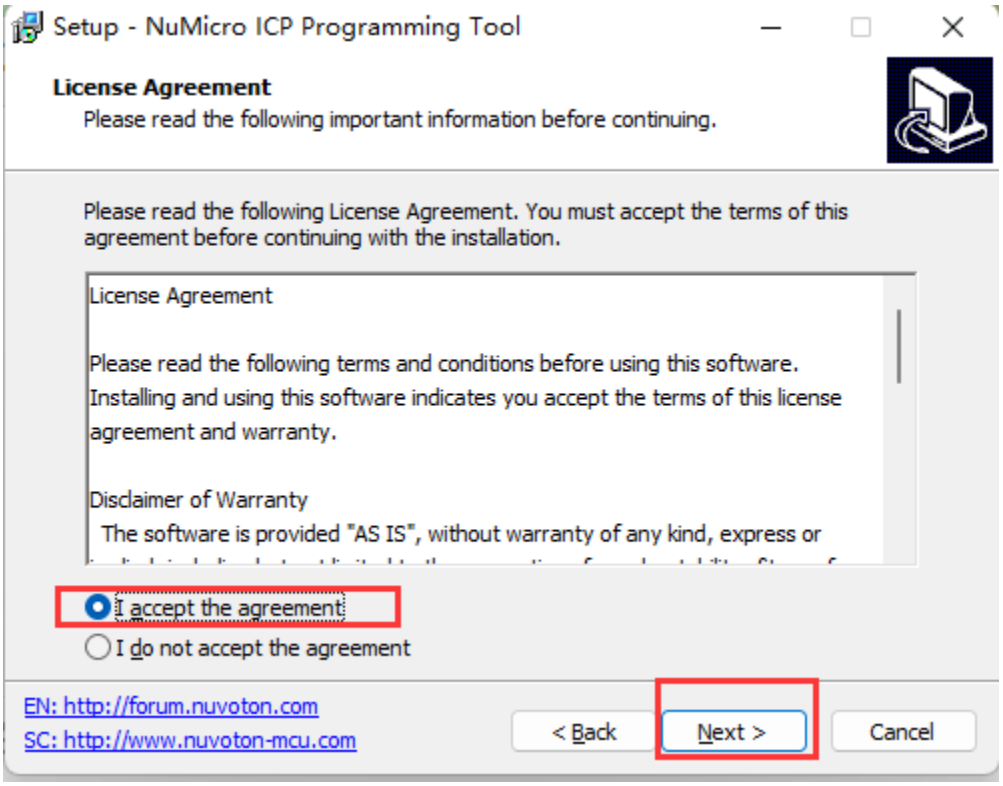



2. 

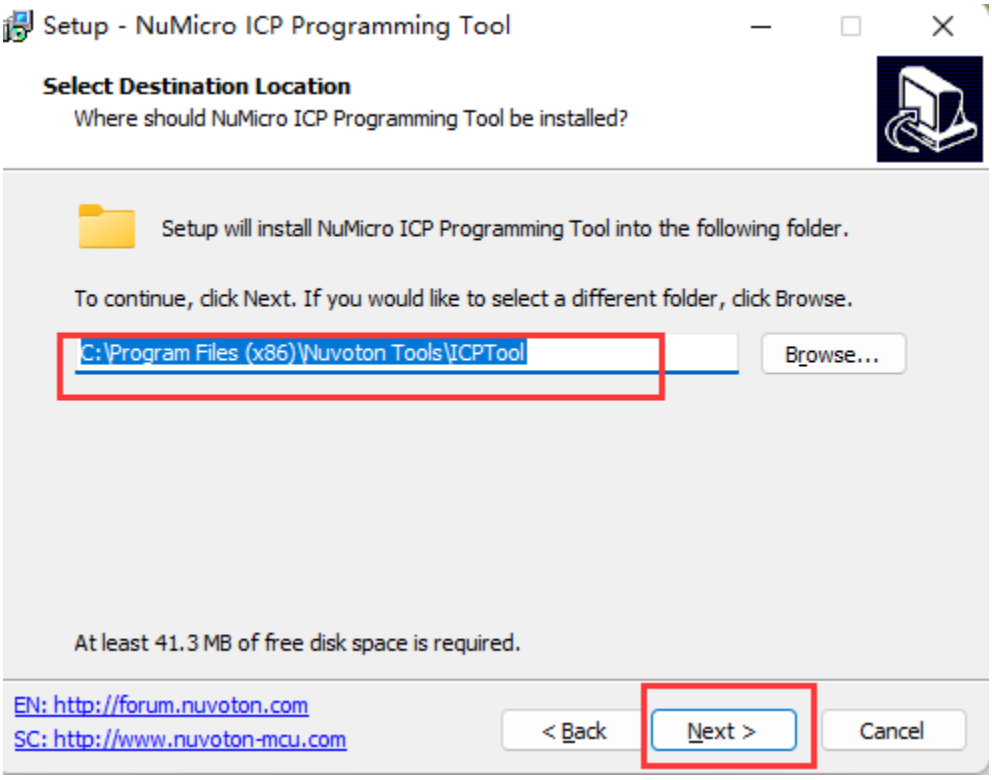

3. Select ‘Next’

4.

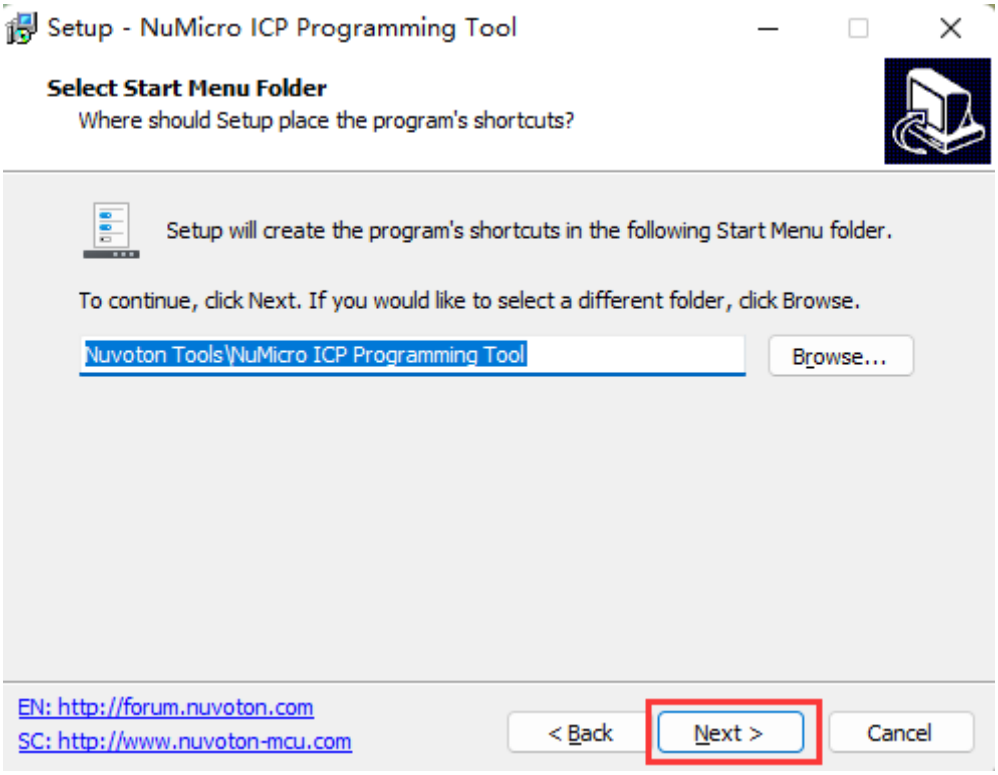

5. Select 'accept agreement' (accept by default), and then click 'next'

6. 


7. Select the storage location and click “Next”

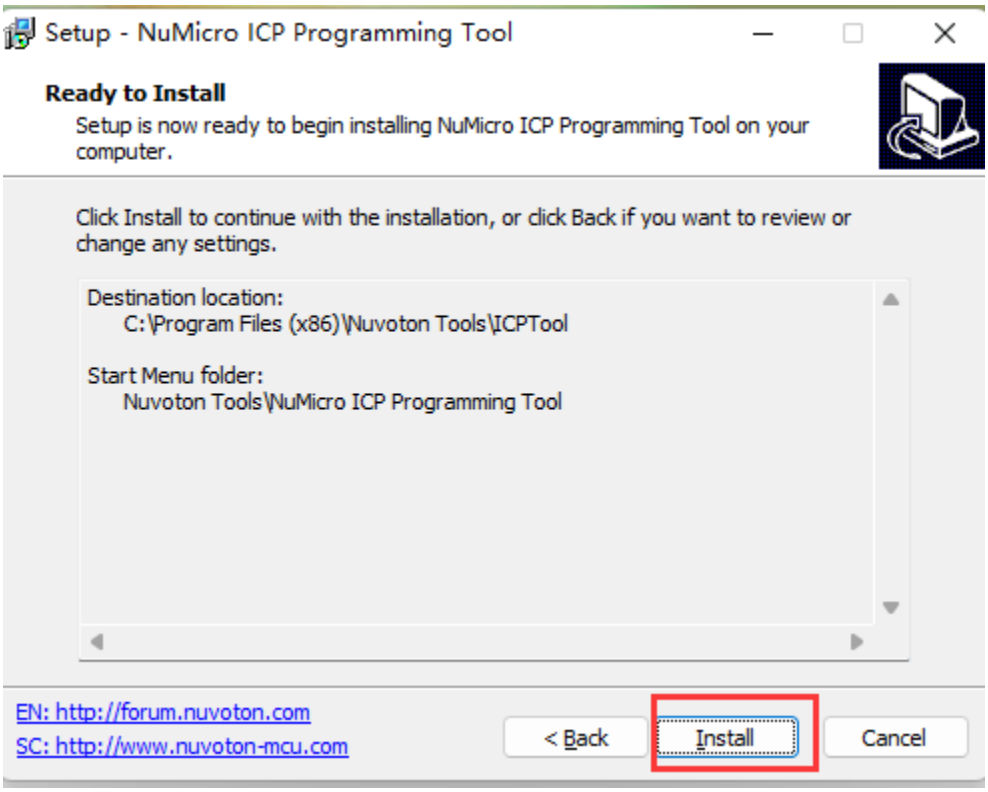
8. 

9. Select Next

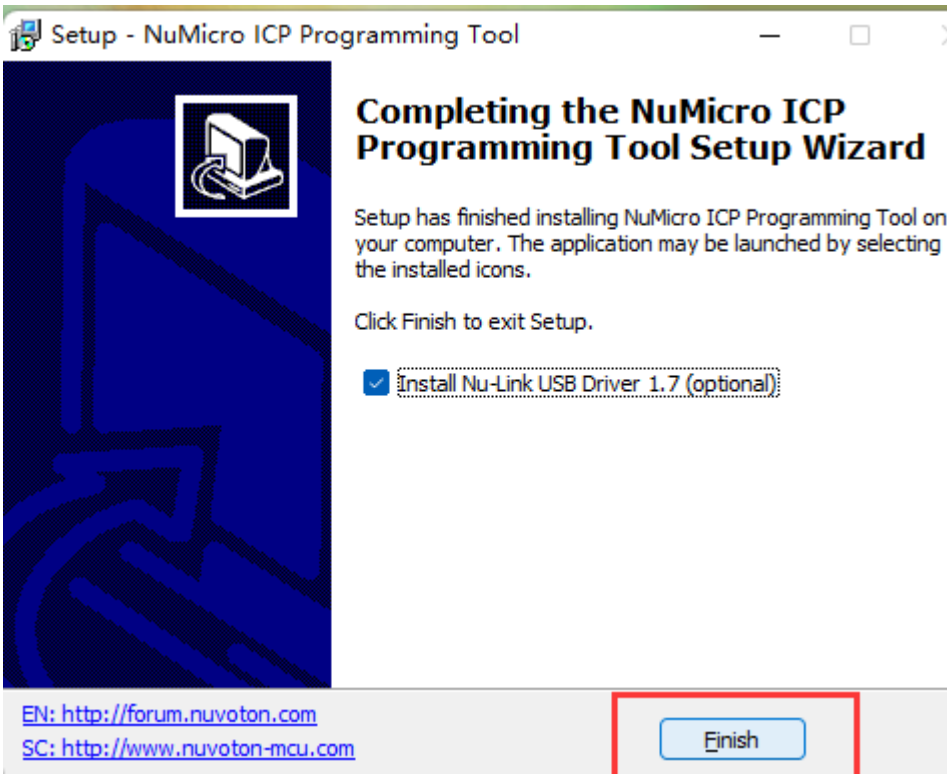


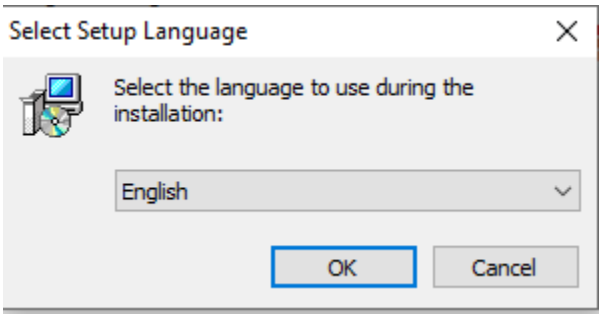

10.

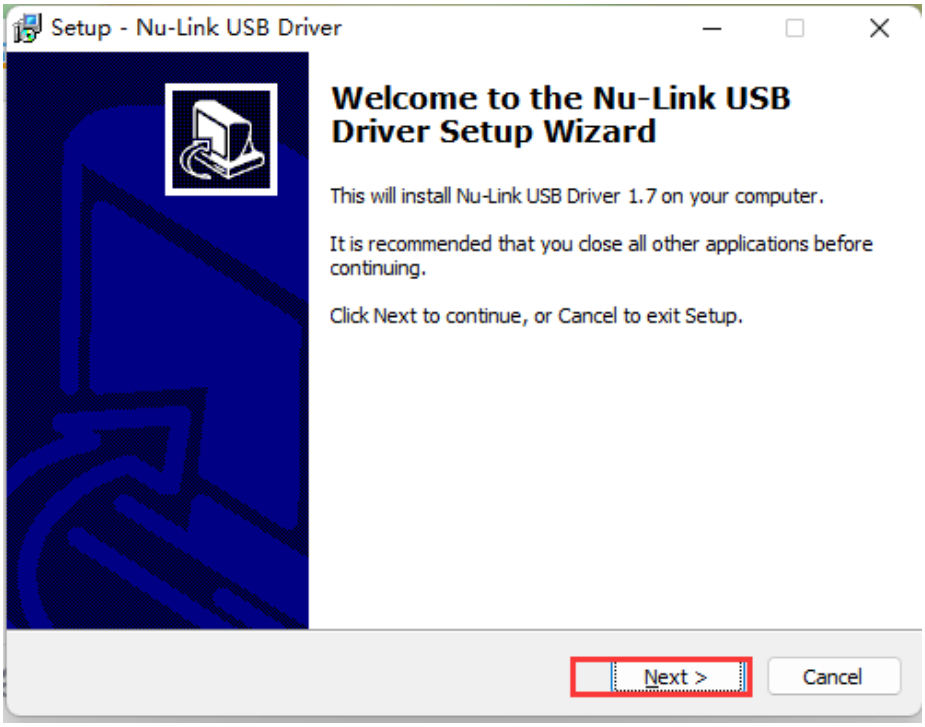
11. Select ‘Install’

12. 

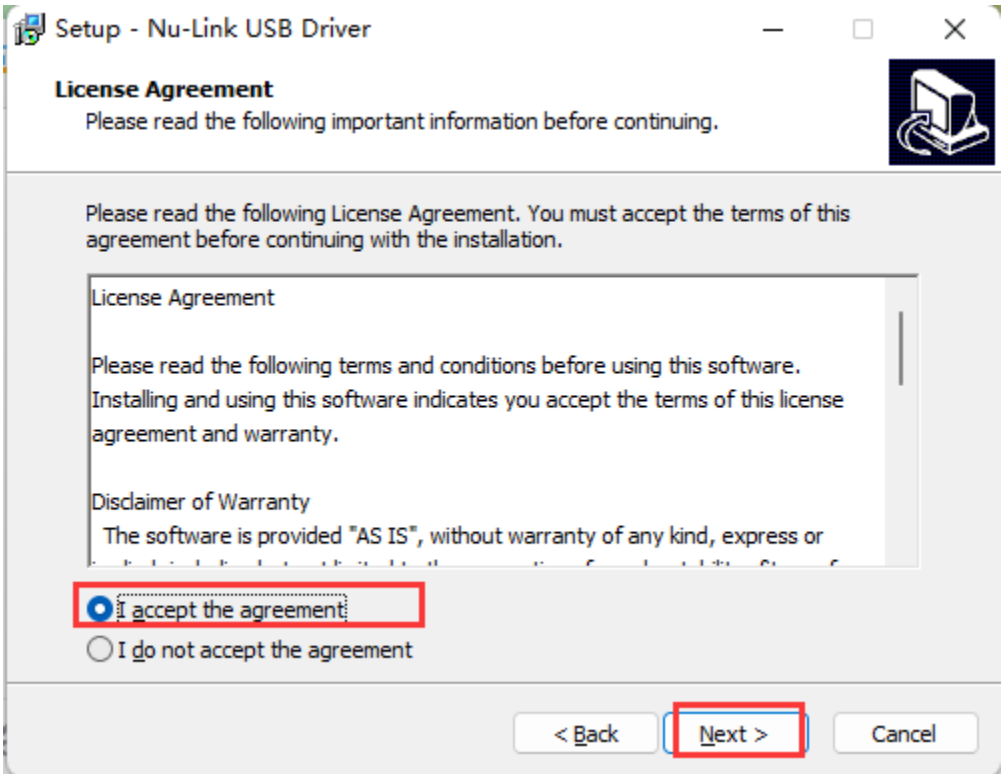

13. Check install driver and click 'finish'

14. 

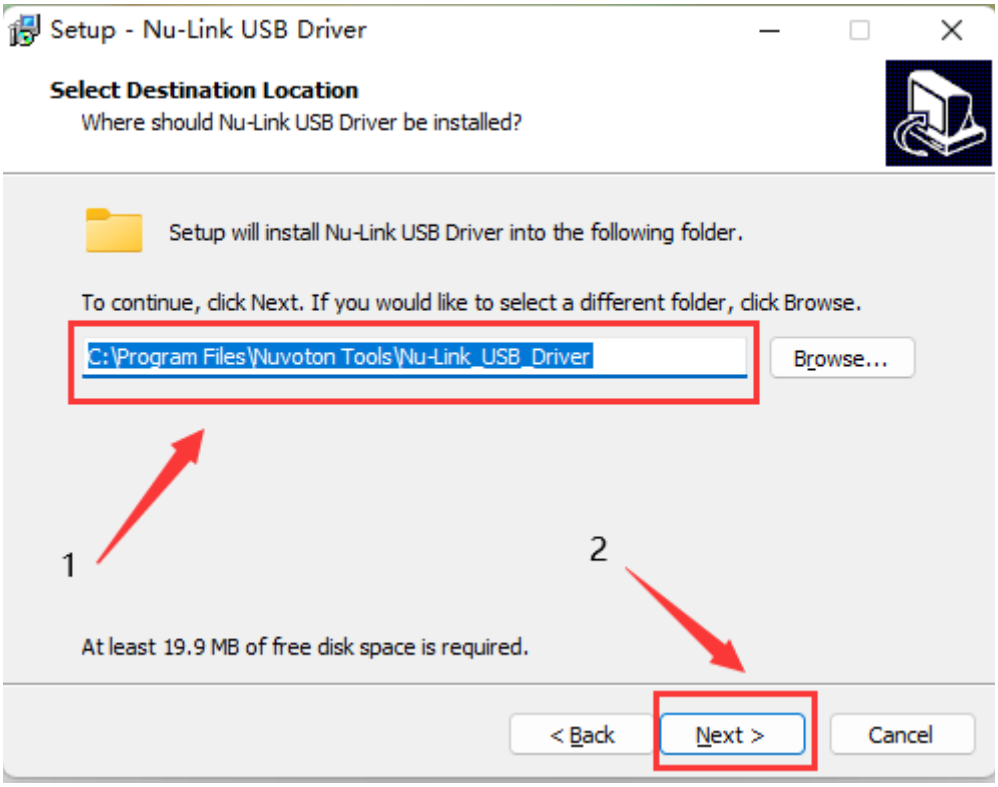
15. 

16. Select Next
17. 

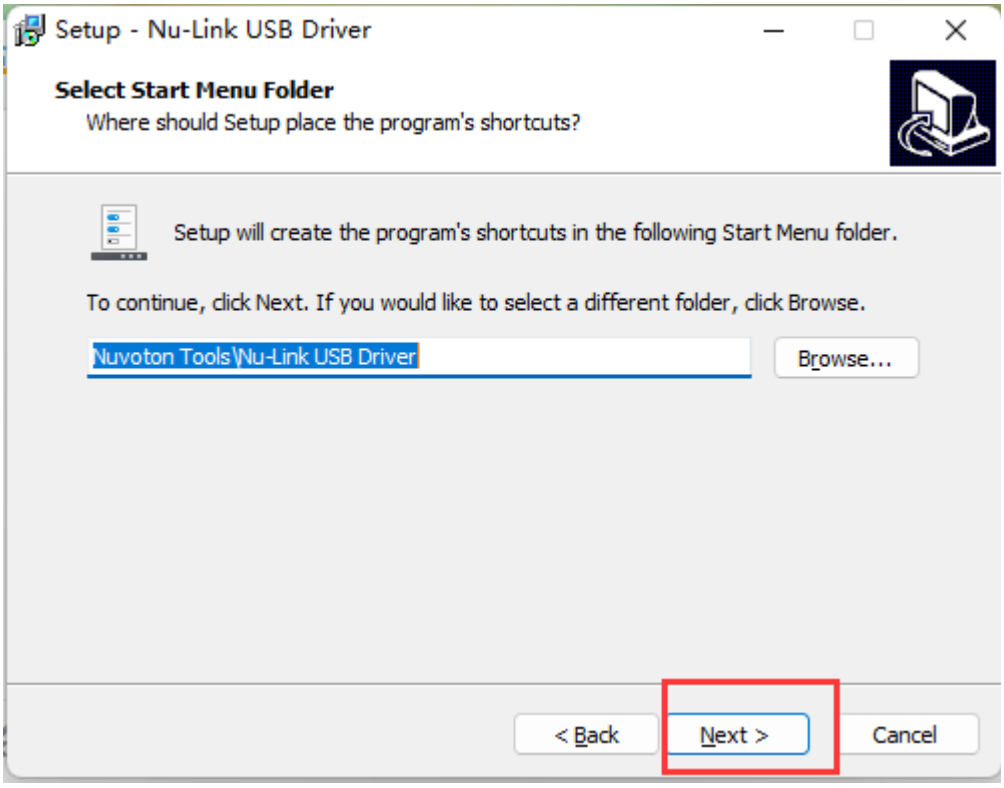
18. Select 'accept agreement' (accept by default), and then click 'next'

19. 


20. Select the storage location and click "next"

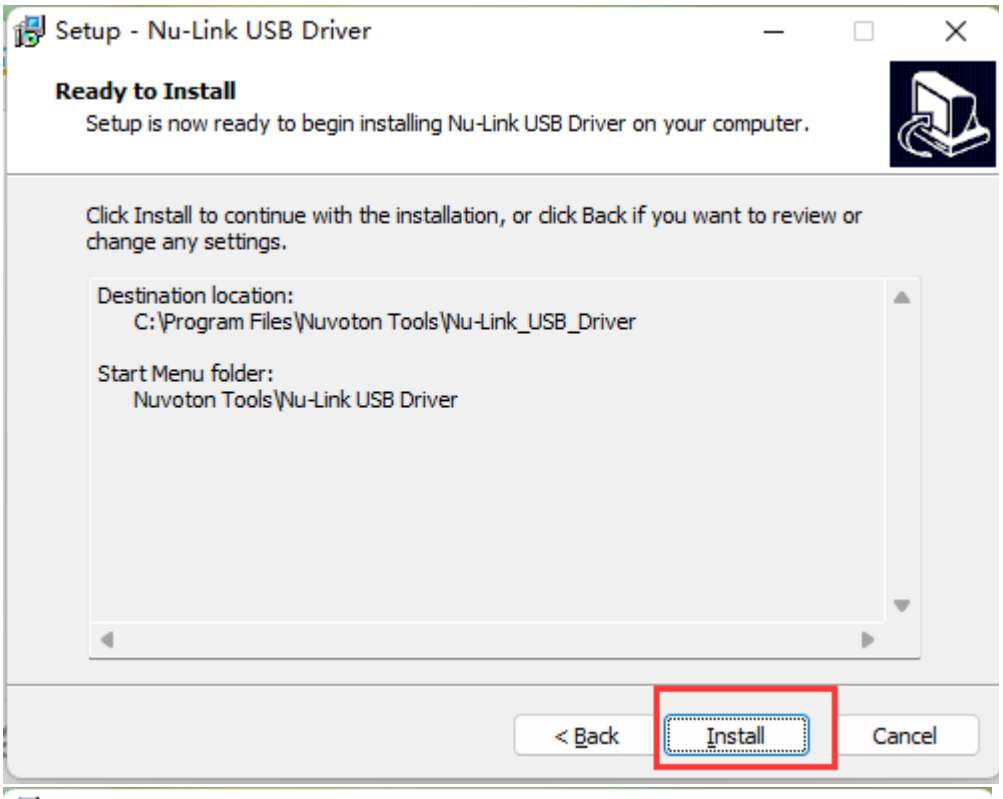
21. 

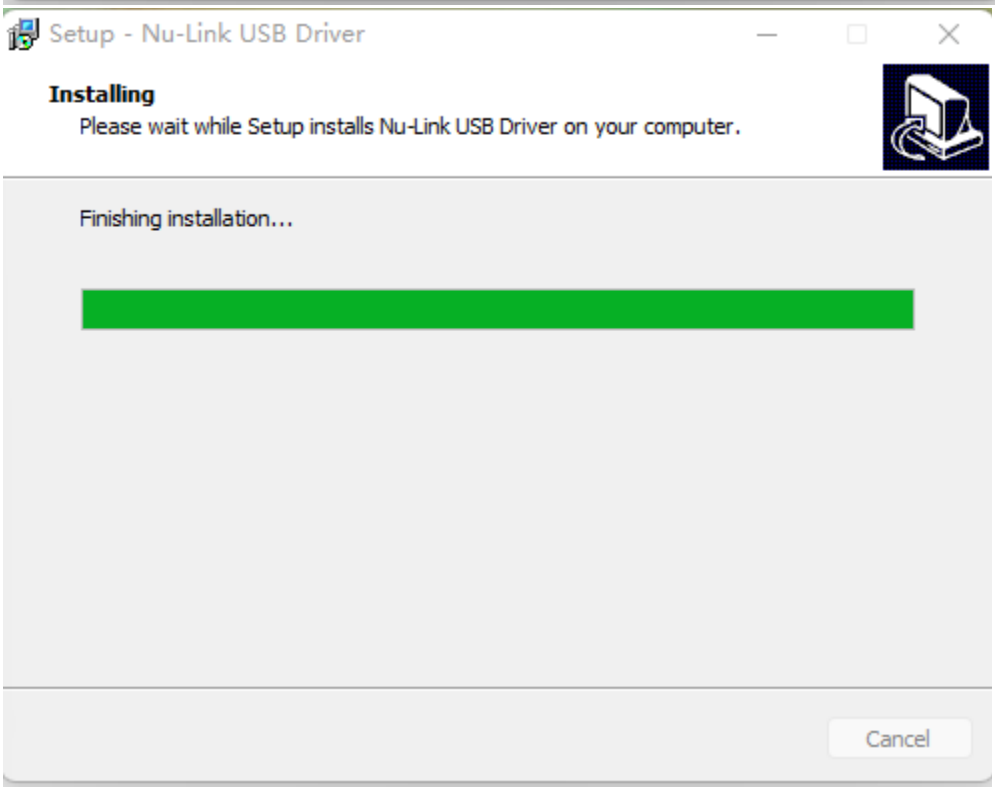
22. Click “Next”

23. 


24. Click ‘Install’

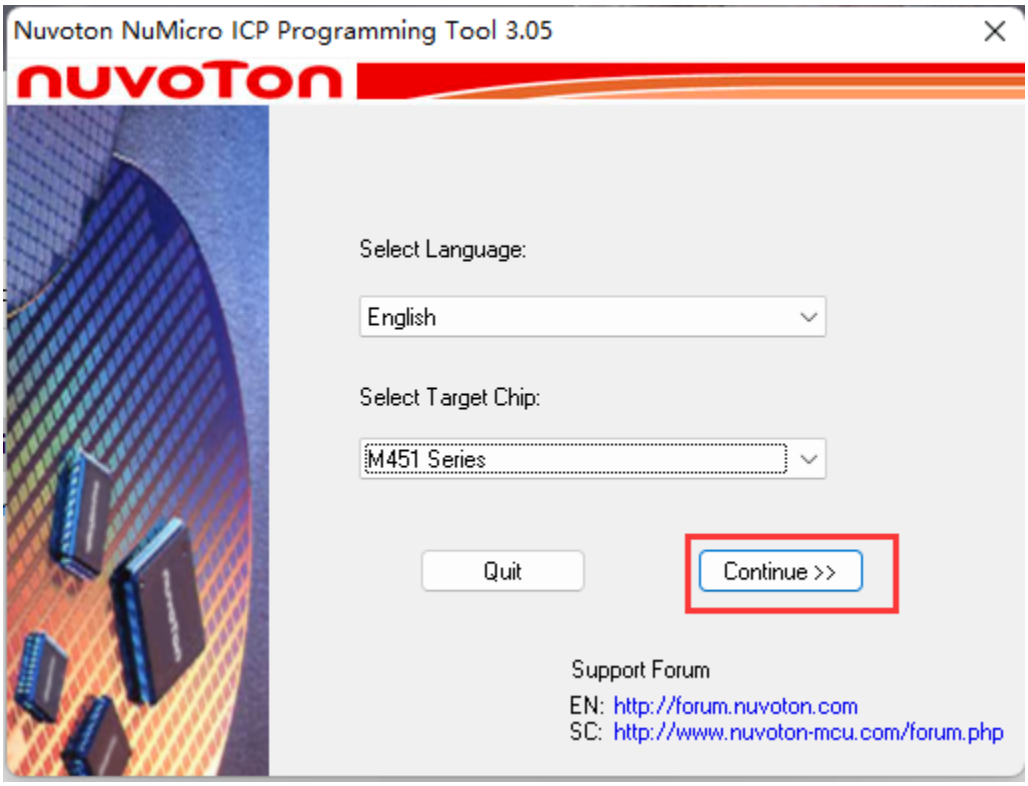
25.


Setup - Nu-Link USB Driver
Ready to Install
Setup is now ready to begin installing Nu-Link USB Driver on your computer.
Click Install to continue with the installation, or click Back if you want to review or change any settings.
Destination location:
C:\Program Files\Nuvoton Tools\Nu-Link_USB_Driver
Start Menu folder:
Nuvoton Tools\Nu-Link USB Driver
< Back
Install
Cancel

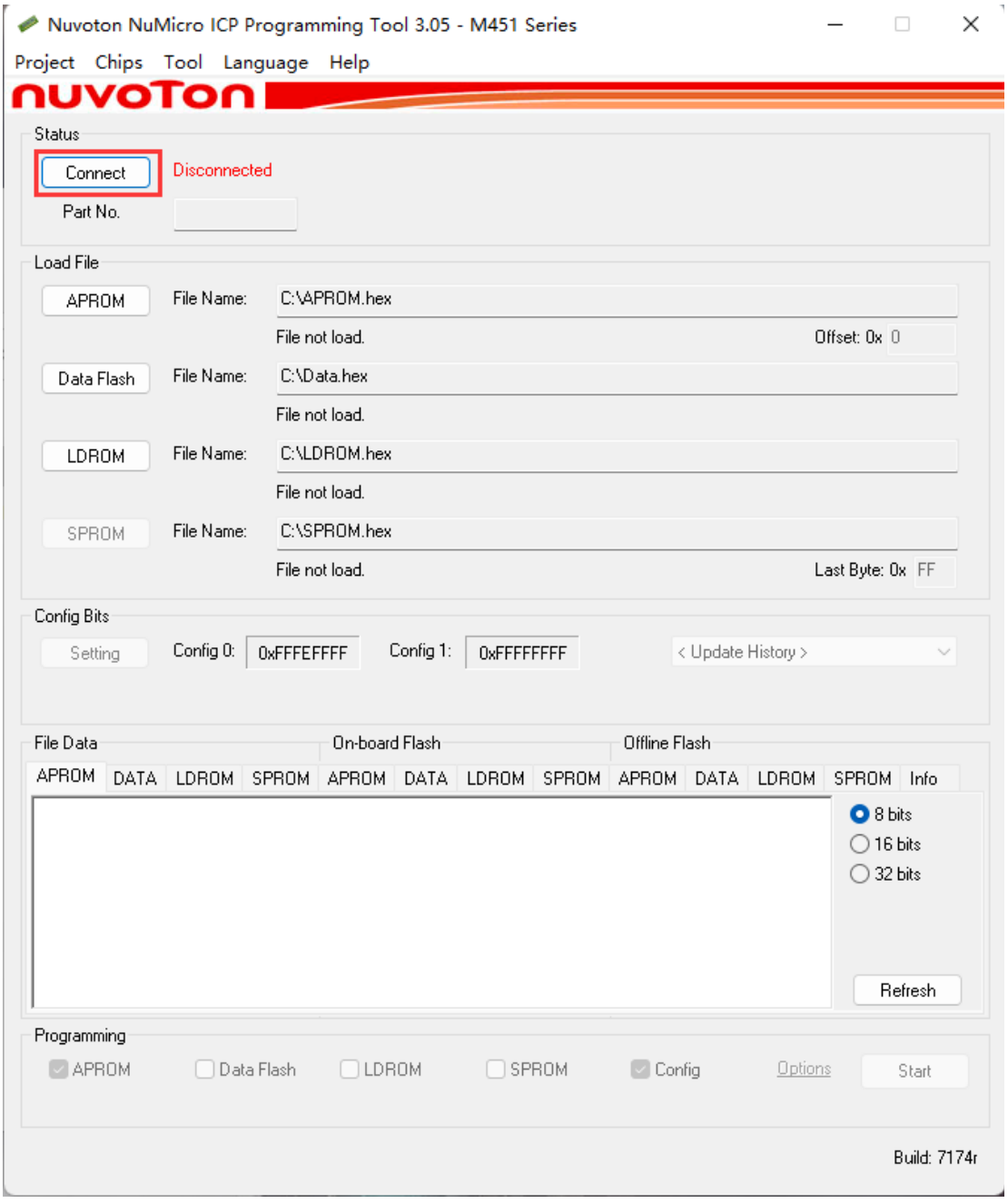

Setup - Nu-Link USB Driver
Installing
Please wait while Setup installs Nu-Link USB Driver on your computer.
Finishing installation...
Cancel

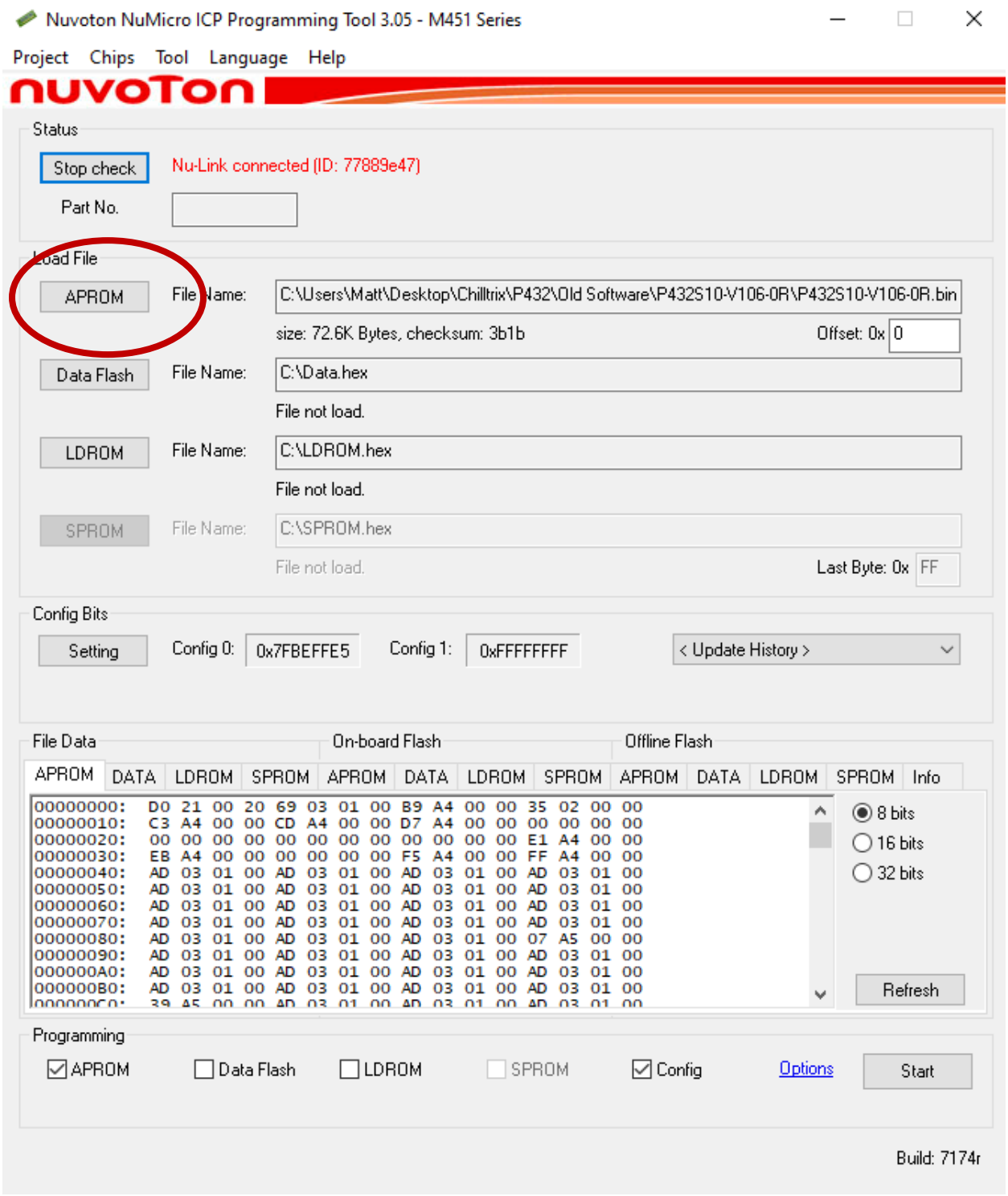
# Offline writing

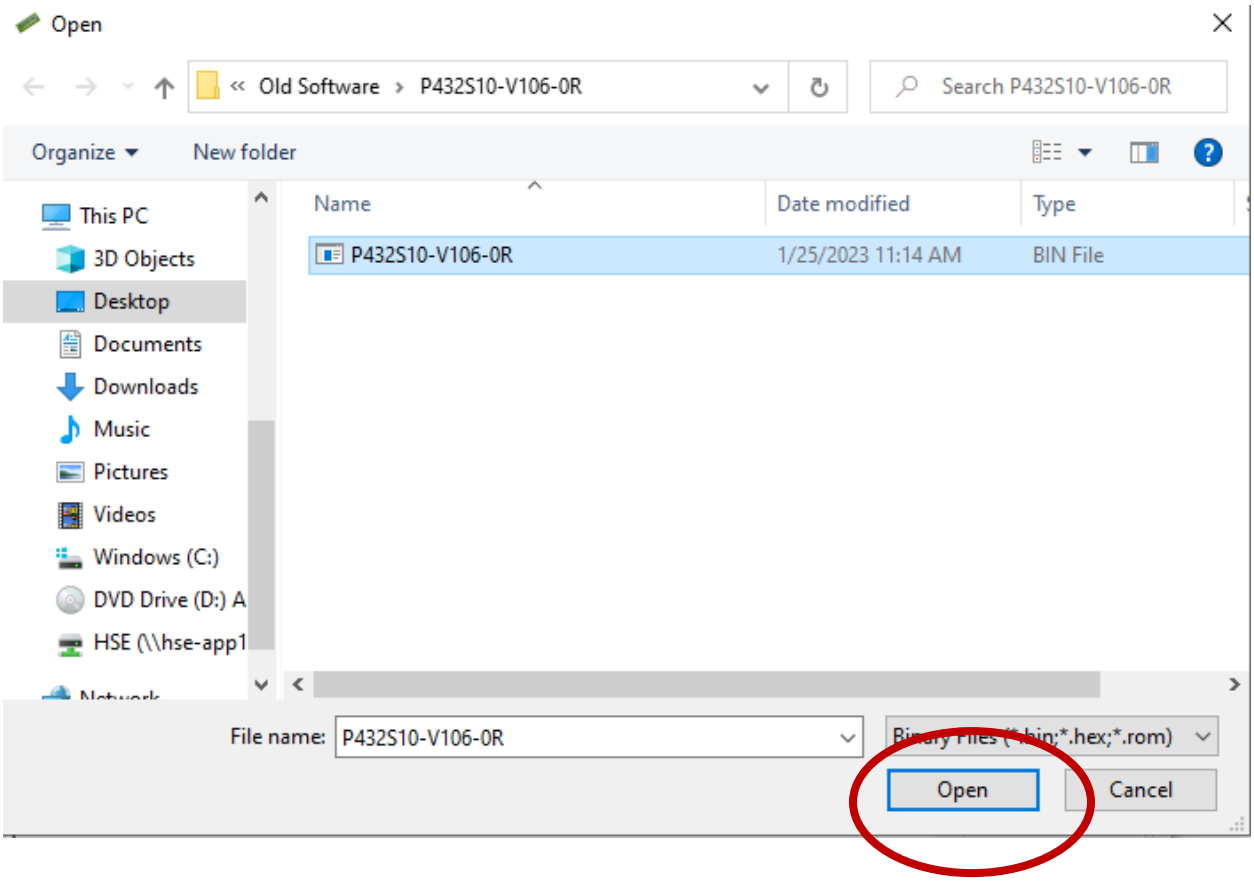
1、Open the NuMicro ICP Programming Tool application and click 'Continue'



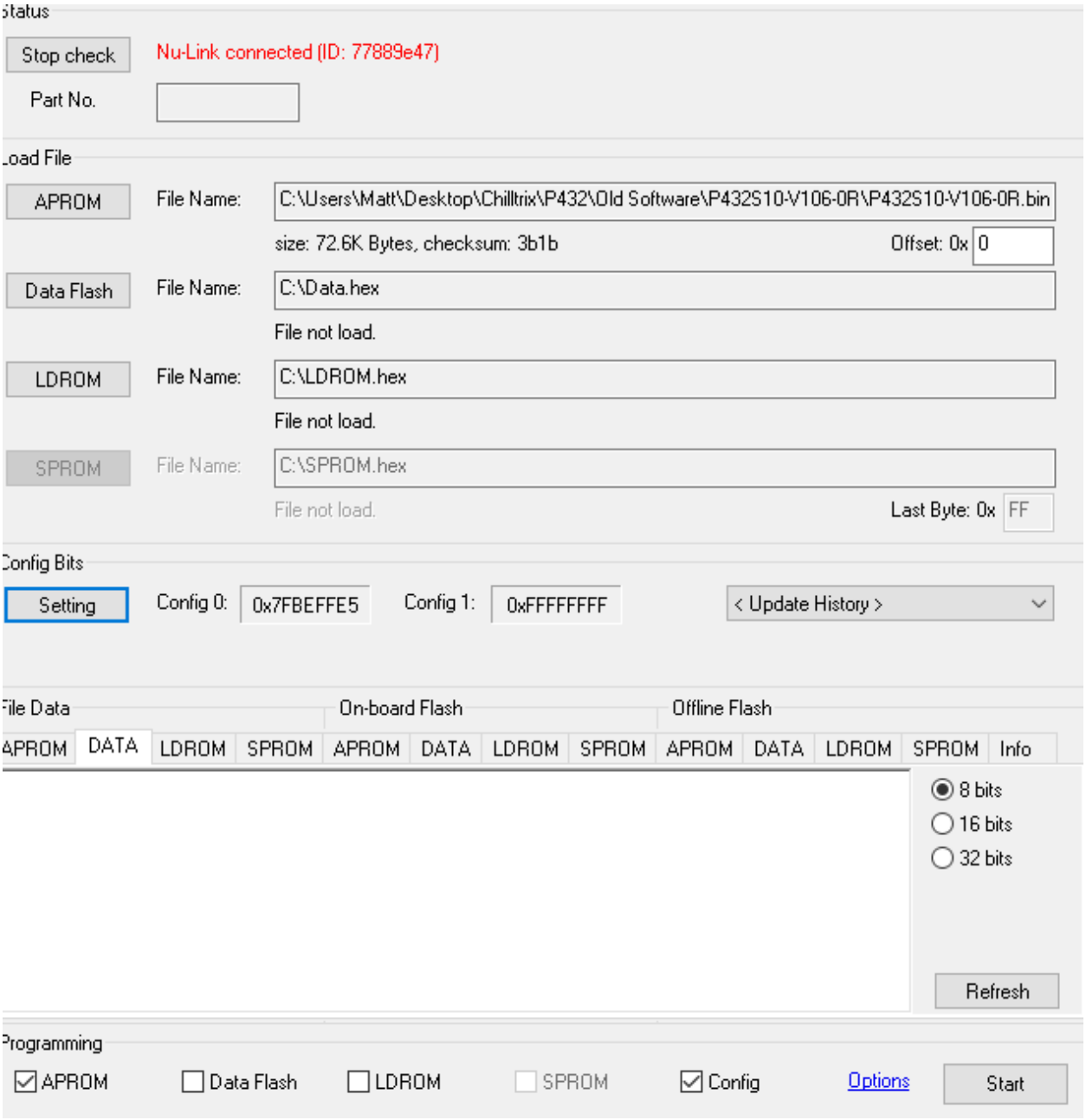
Click ‘Connect’



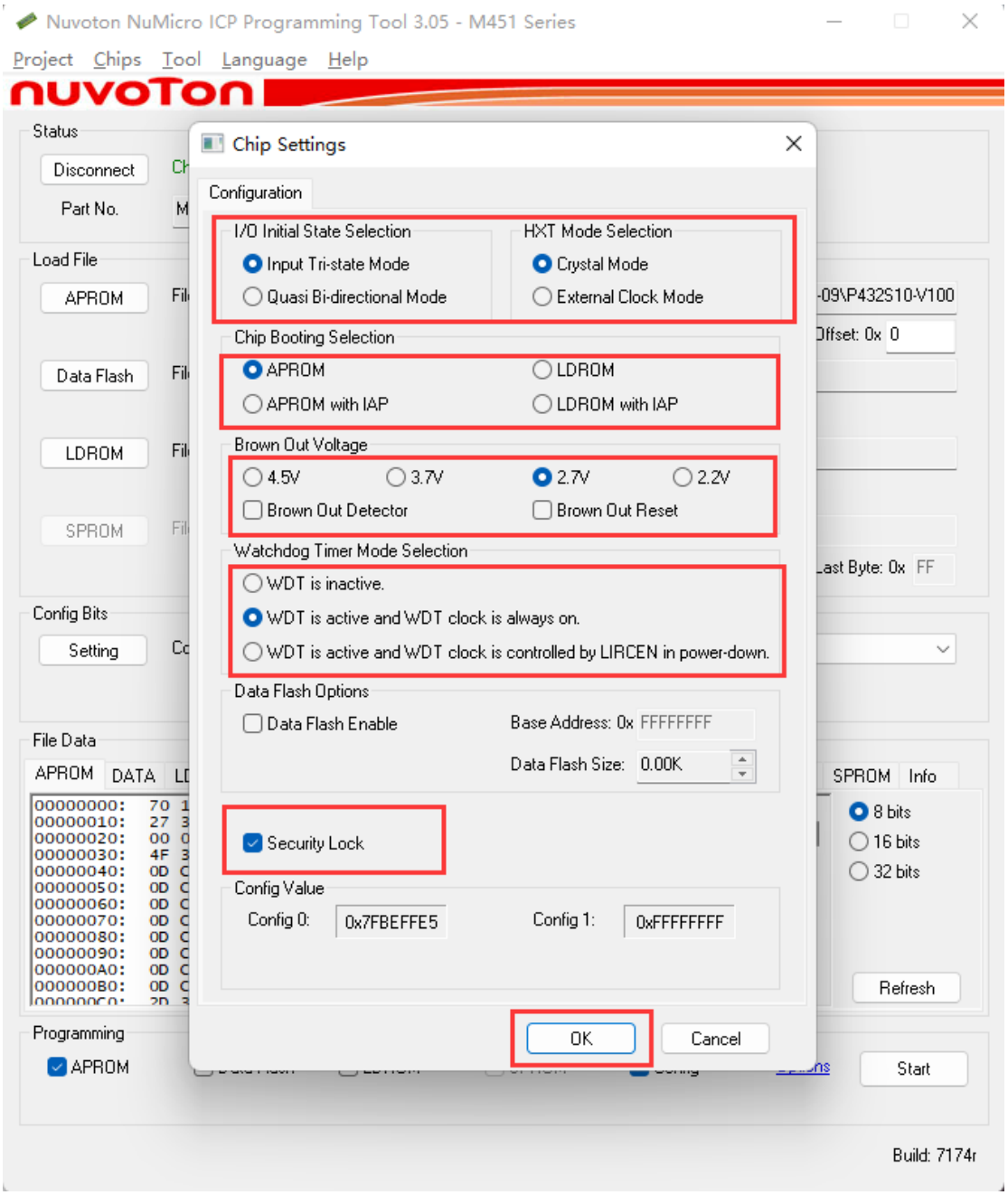

Nuvoton NuMicro ICP Programming Tool 3.05 - M451 Series
Project Chips Tool Language Help
nuvoTon
Status
Stop check
Nu-Link connected (ID: 77889e47)
Part No.
Load File
APROM
File Name:
C:\Users\Matt\Desktop\Chilltrix\P432\Old Software\P432S10-V106-0R\P432S10-V106-0R.bin
size: 72.6K Bytes, checksum: 3b1b
Offset: 0x 0
Data Flash
File Name:
C:\Data.hex
File not load.
LDROM
File Name:
C:\LDROM.hex
File not load.
SPROM
File Name:
C:\SPROM.hex
File not load.
Last Byte: 0x FF
Config Bits
Setting
Config 0: 0x7FBEFFE5
Config 1: 0xFFFFFFFF
< Update History >
File Data
On-board Flash
Offline Flash
APROM DATA LDROM SPROM APROM DATA LDROM SPROM APROM DATA LDROM SPROM Info
00000000: D0 21 00 20 69 03 01 00 B9 A4 00 00 35 02 00 00
00000010: C3 A4 00 00 CD A4 00 00 D7 A4 00 00 00 00 00 00
00000020: 00 00 00 00 00 00 00 00 00 00 00 00 E1 A4 00 00
00000030: EB A4 00 00 00 00 00 00 F5 A4 00 00 FF A4 00 00
00000040: AD 03 01 00 AD 03 01 00 AD 03 01 00 AD 03 01 00
00000050: AD 03 01 00 AD 03 01 00 AD 03 01 00 AD 03 01 00
00000060: AD 03 01 00 AD 03 01 00 AD 03 01 00 AD 03 01 00
00000070: AD 03 01 00 AD 03 01 00 AD 03 01 00 AD 03 01 00
00000080: AD 03 01 00 AD 03 01 00 AD 03 01 00 07 A5 00 00
00000090: AD 03 01 00 AD 03 01 00 AD 03 01 00 AD 03 01 00
000000A0: AD 03 01 00 AD 03 01 00 AD 03 01 00 AD 03 01 00
000000B0: AD 03 01 00 AD 03 01 00 AD 03 01 00 AD 03 01 00
8 bits
16 bits
32 bits
Refresh
Programming
APROM
Data Flash
LDROM
SPROM
Config
Options
Start
Build: 7174r


Open
Old Software › P432S10-V106-0R
Search P432S10-V106-0R
Organize
New folder
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
Windows (C:)
DVD Drive (D:) A
HSE (\\hse-app1
Name
Date modified
Type
P432S10-V106-0R
1/25/2023 11:14 AM
BIN File
File name:
P432S10-V106-0R
*.hex;*.rom)
Open
Cancel

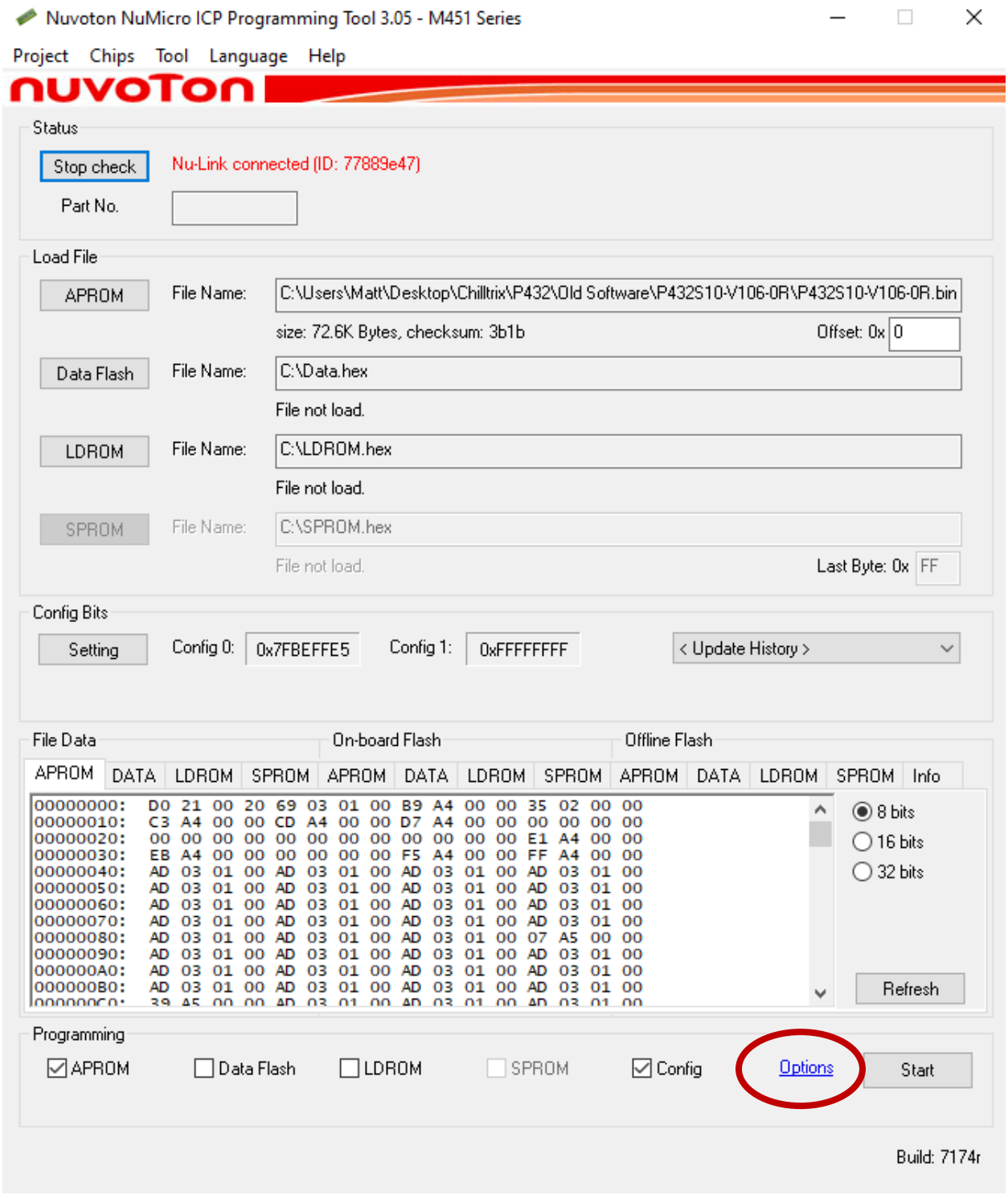
# Select settings and then “m451xG6AE series”



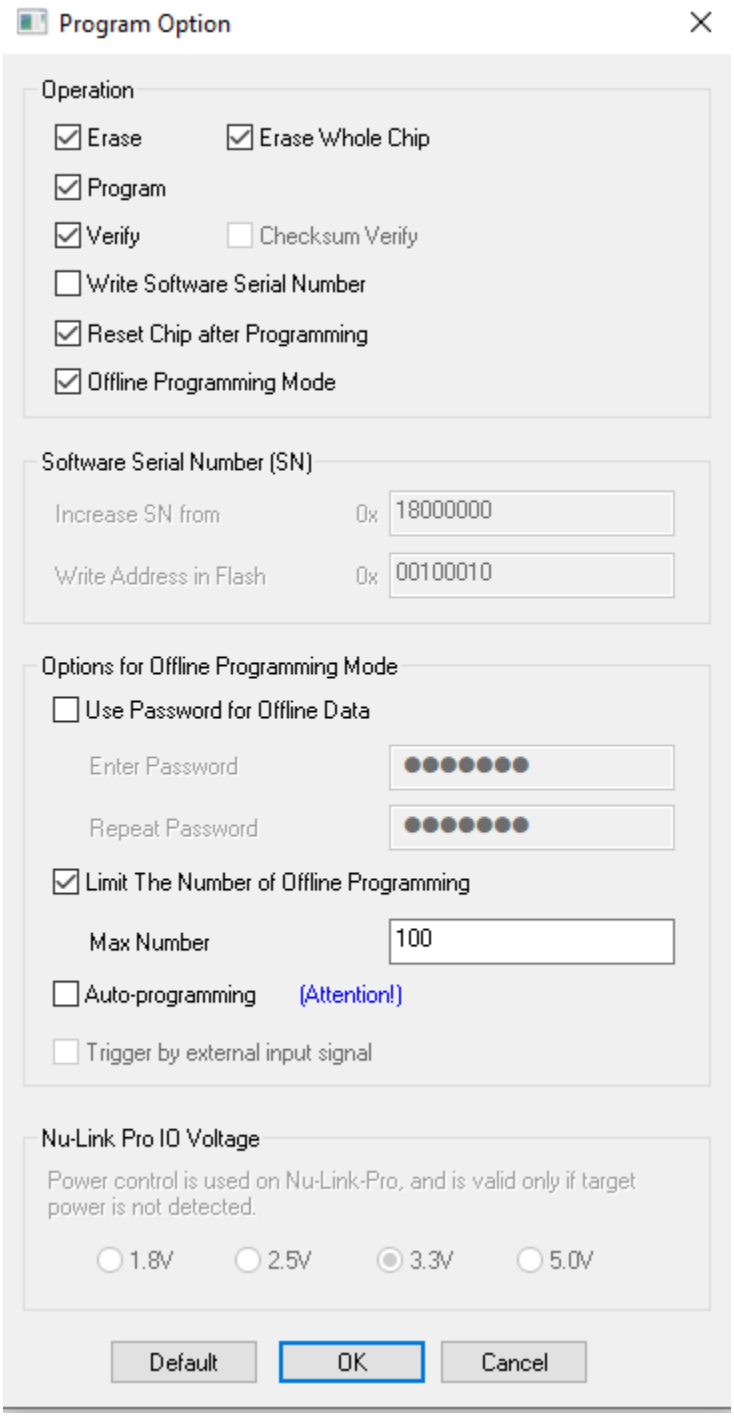
Make sure that your screen matches as shown below.



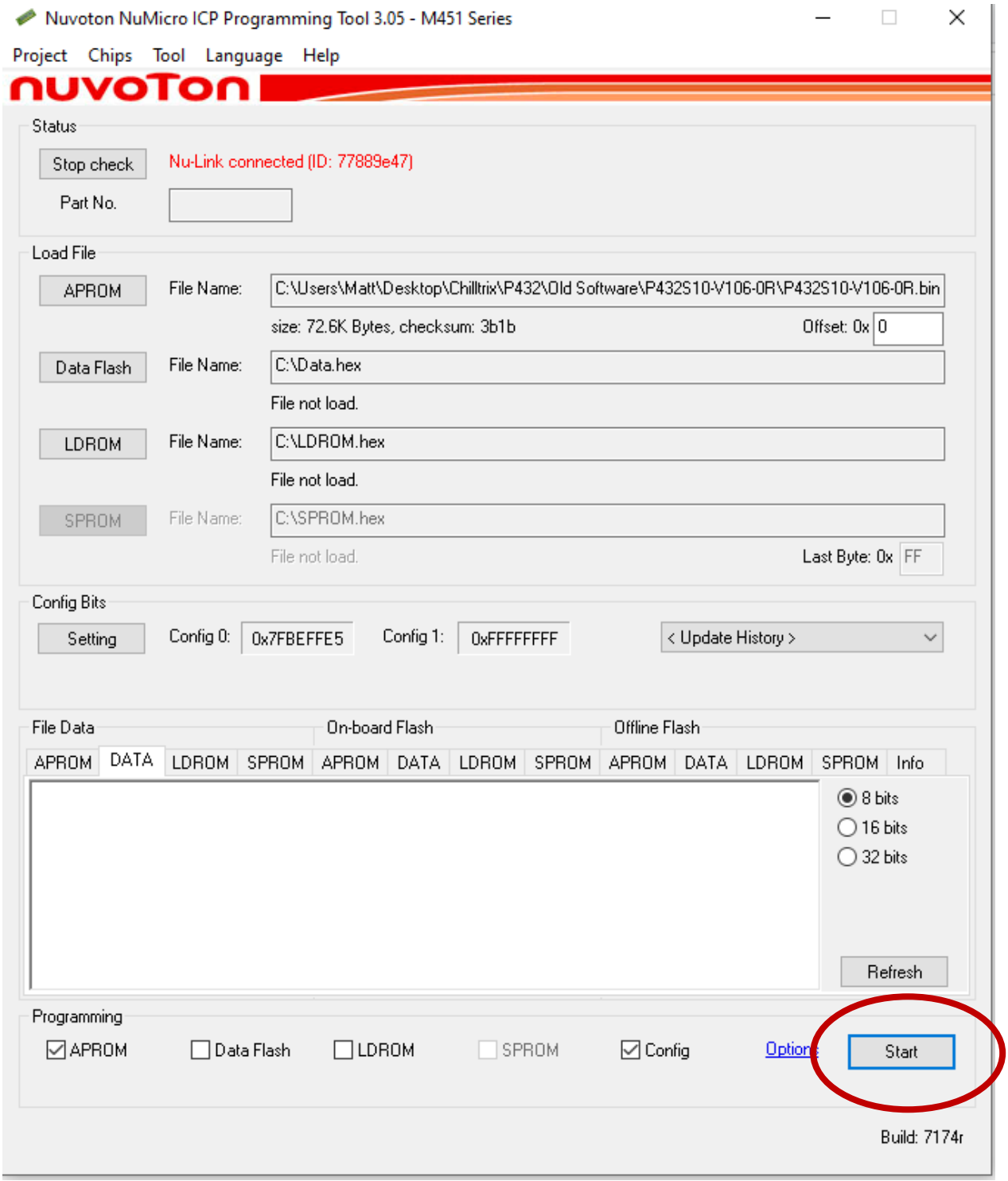
# Select options



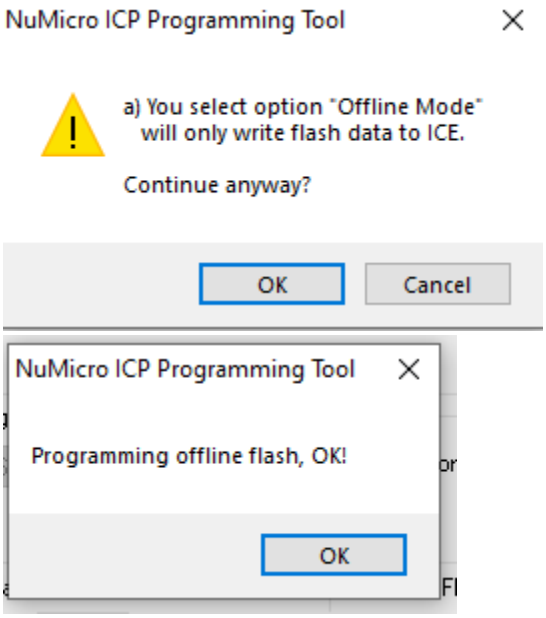
Make sure the following options are checked.



# Select start



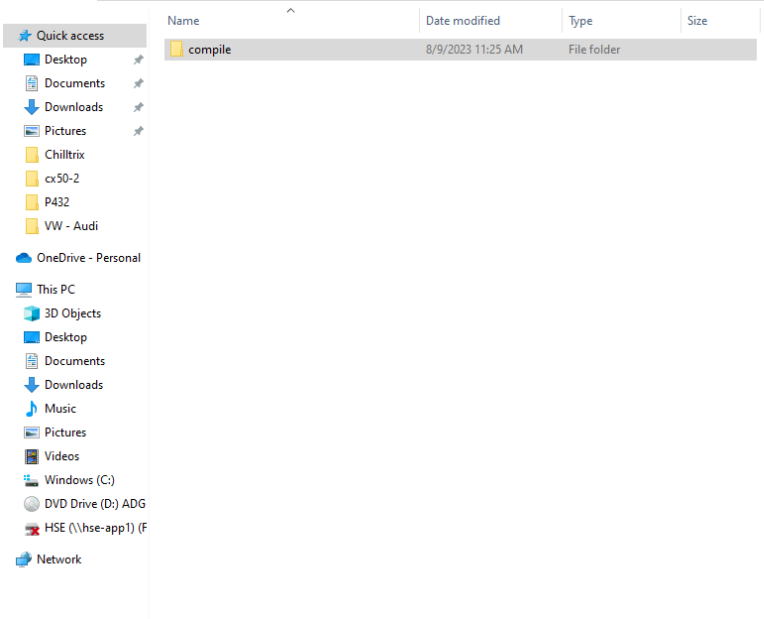
Select ok




You are now ready to flash the main pcb board on the chiller as before.

# HMI Updating using SD card.

To update the hmi, all you need is a micro sd card. In the file labeled “HMI-P432-US-Vx.x.x.zip” there will be a folder labeled “Compile” Drag this to the sd card and follow the instructions below.

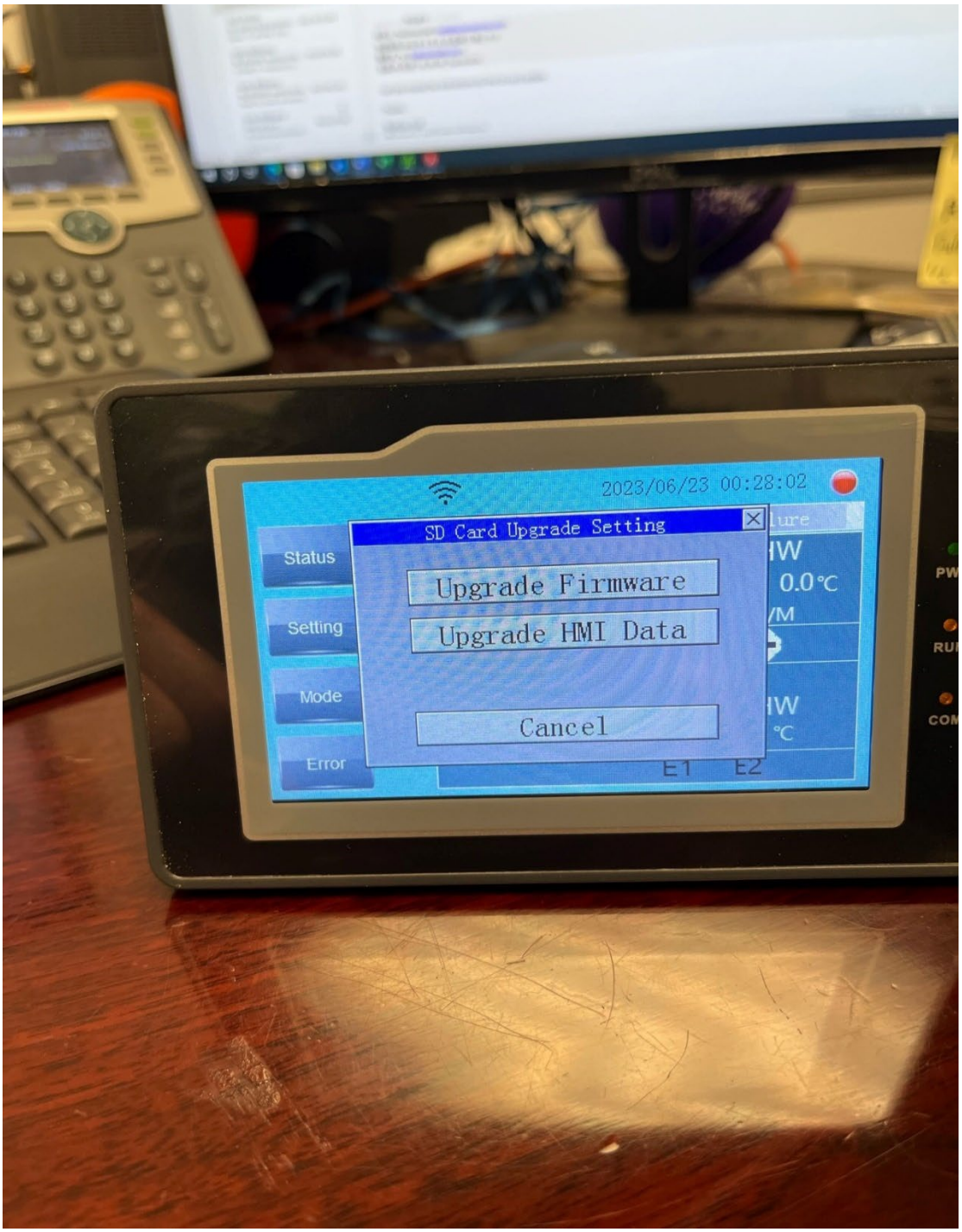



Note the above shows what the sd card should contain.

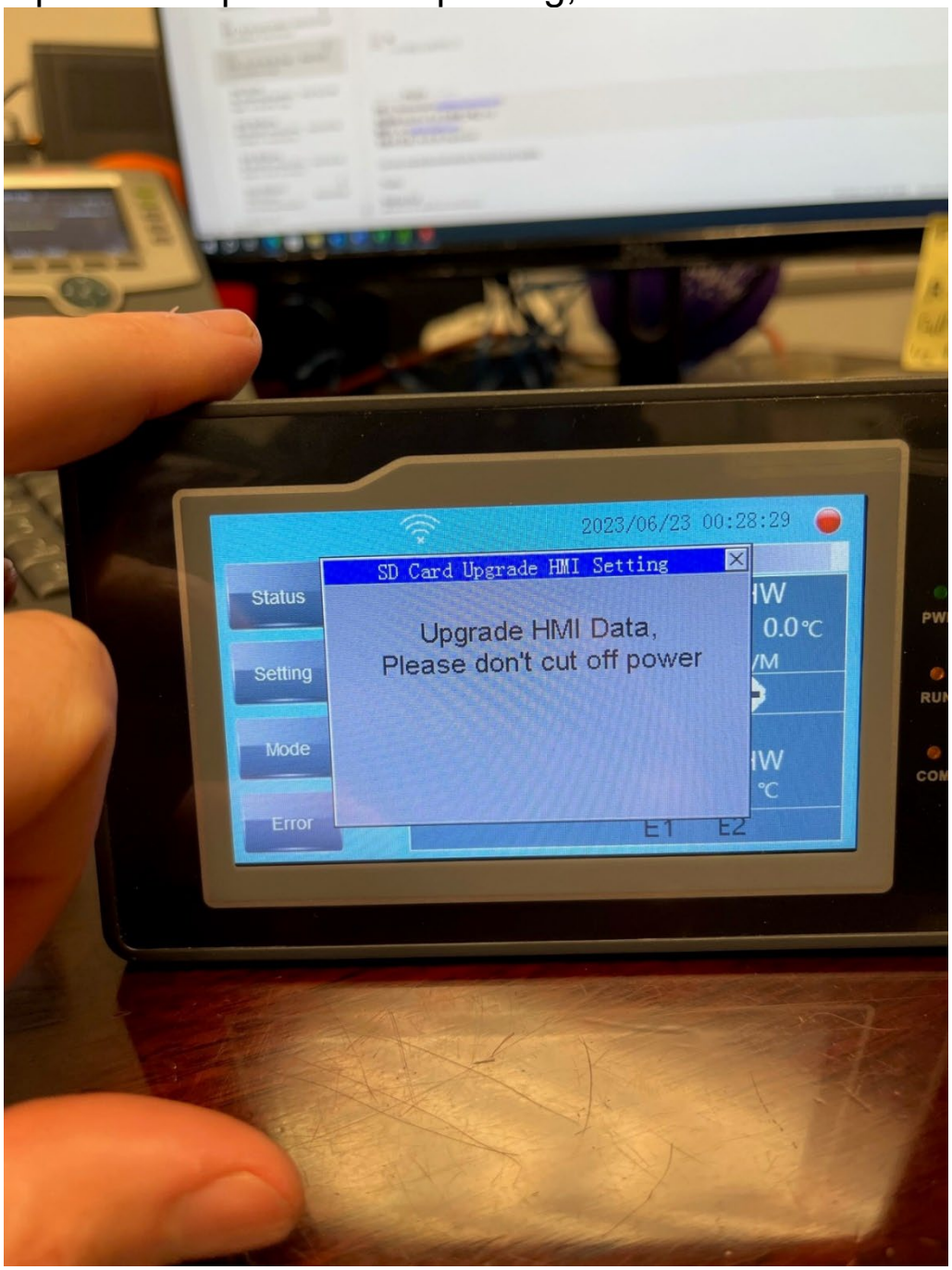
# HMI Update Instructions
# CX 35-1/CX 50-2

Step 1. If we sent you an Sd card with the software already loaded then Insert the SD card into the SD card slot at the upper right corner of the Controller with power on but with the chiller shut down. If you are supplying your own SD card then contact Support for the latest file for your chiller and load the folder labeled “Compile” onto the SD card.

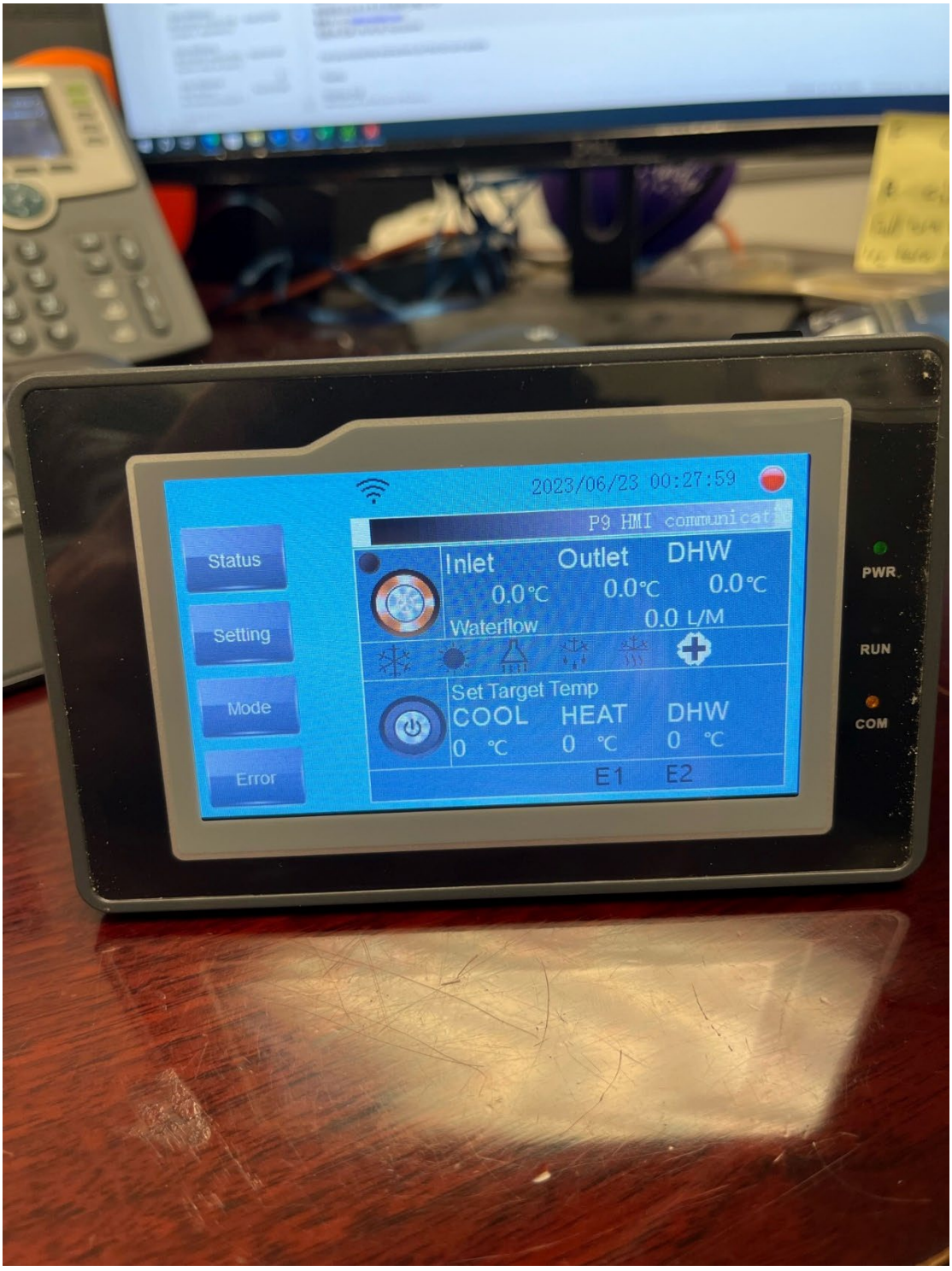
Step 2. When the upgrade prompt appears, click "Upgrade HMI Data"


2023/06/23 00:28:02
SD Card Upgrade Setting
Upgrade Firmware
Upgrade HMI Data
Cancel
Status
Setting
Mode
Error
E1
E2
0.0℃

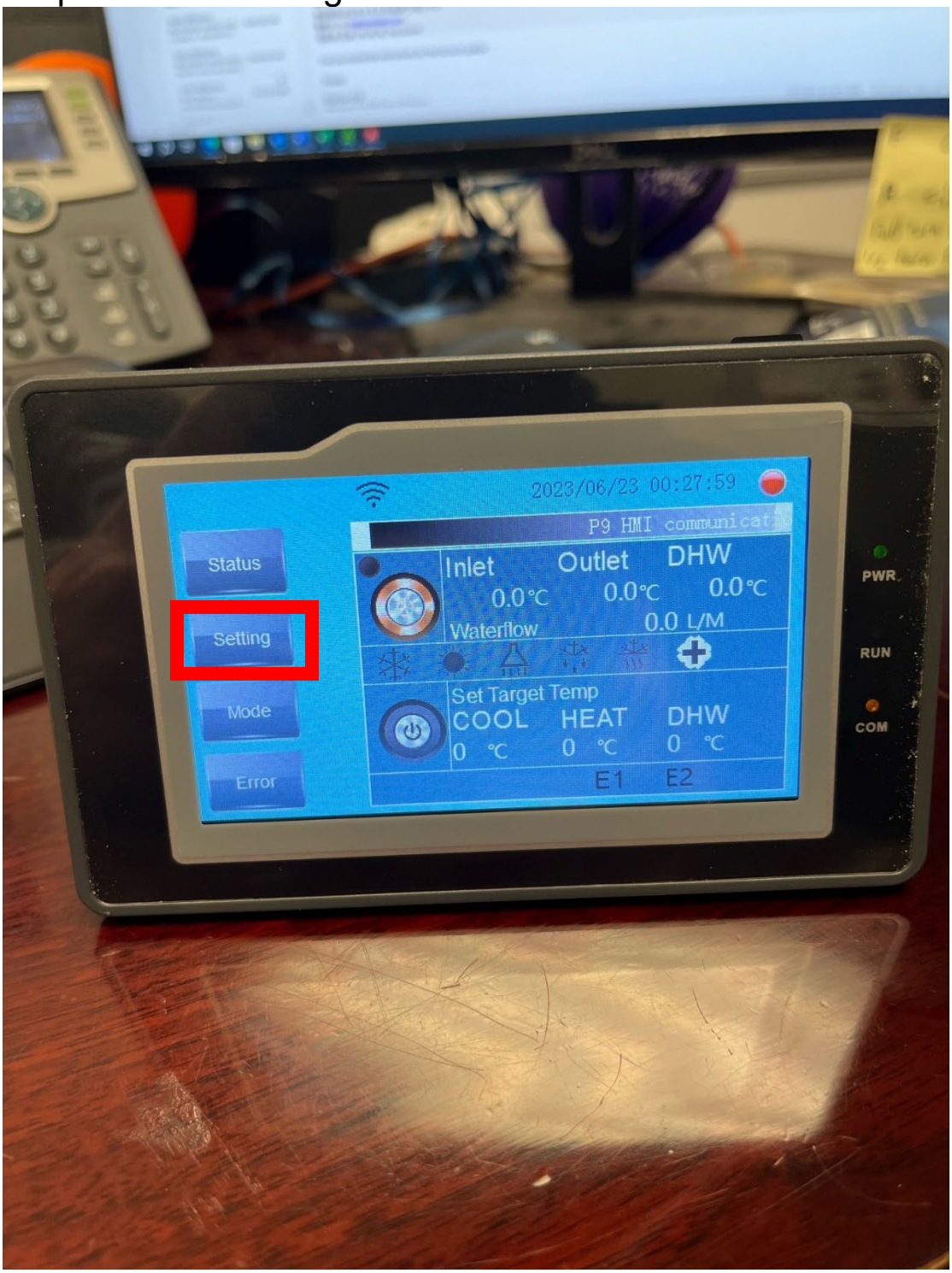
Step 3. In the process of updating, it will take about 1 minute.



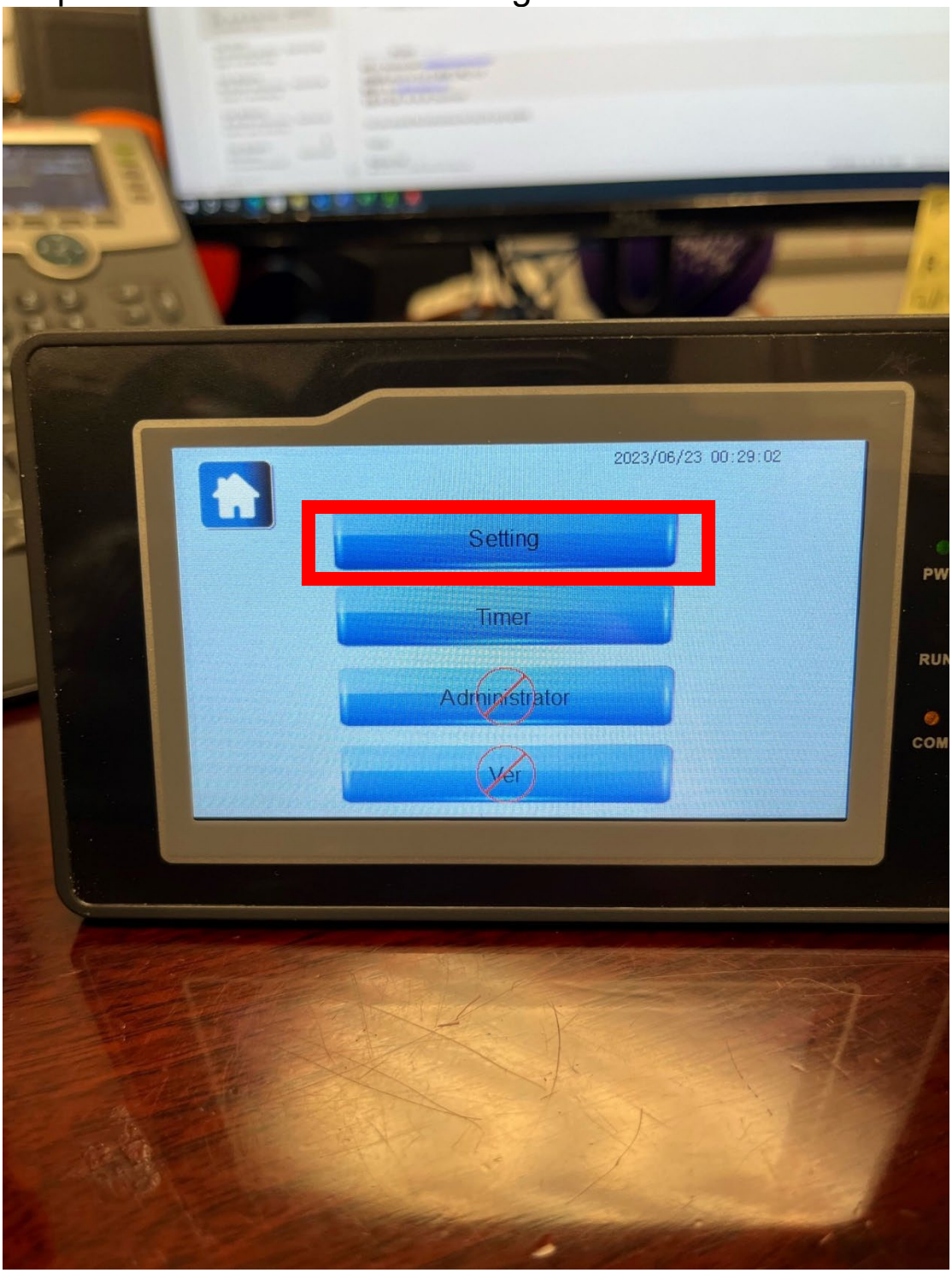
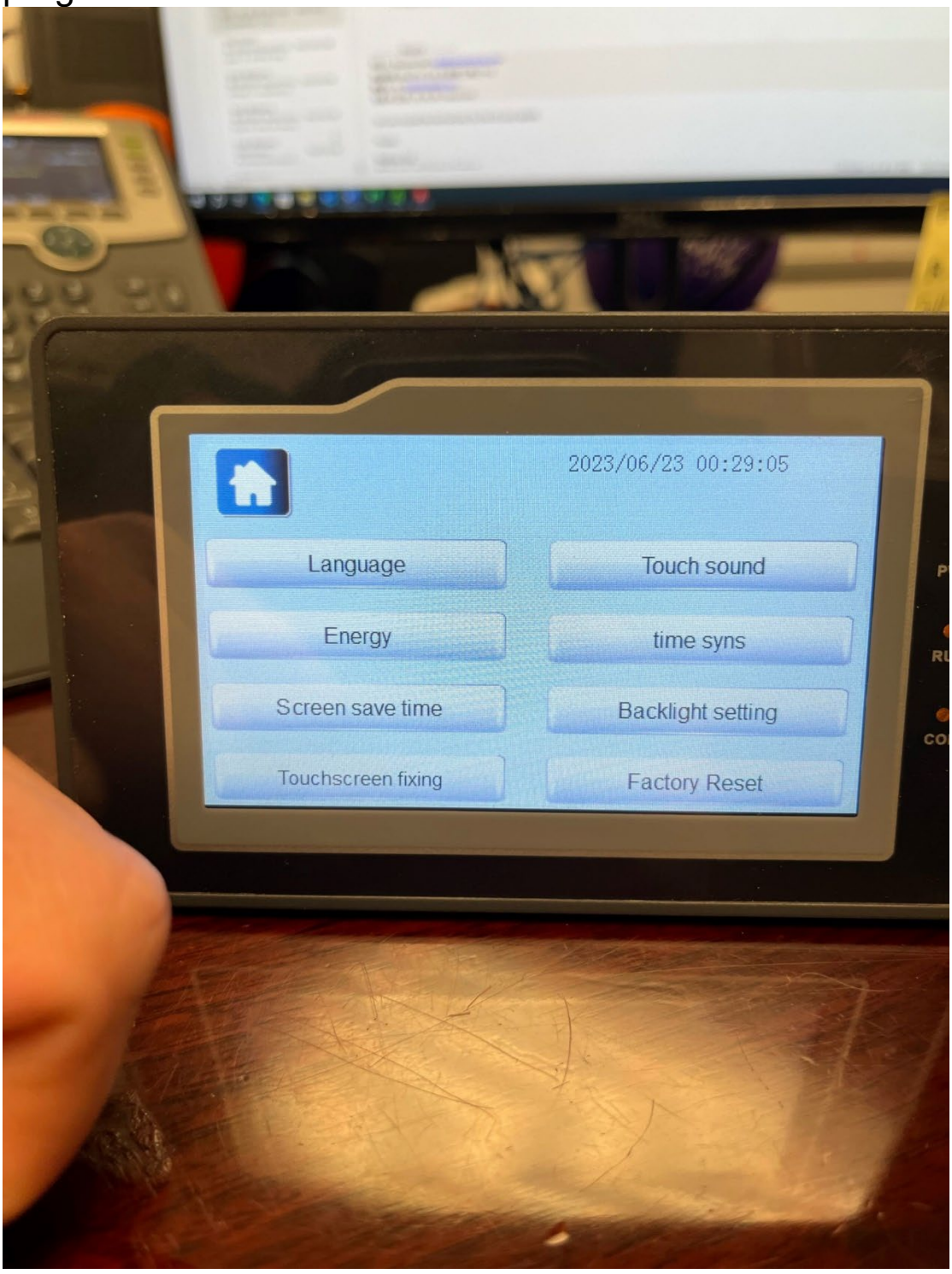
Step 4. The screen will go black and restart. Remove the SD card after the screen restarts.



Step 5. Click "Setting".



Step 6. Continue to click "Setting".



Step 7. Click "Factory Reset" before startup to initialize the program.