

XD/XL/XG firmware update instruction

1 Reasons for updating the PLC system

1. Due to the need of software structure optimization and function enhancement, PLC software is in the stage of continuous upgrading; The mismatch between software and firmware versions will cause the old version of PLC to not support some upgraded new functions. In order to solve this problem, the old version of the PLC firmware system can be upgraded to the new version through the PLC system update function to use the new command function.
2. When the user uses the function of encrypted download program but forgets the password, which makes the PLC unable to use, it can be solved through system update.

Note: After the system is updated, the original program in PLC will be lost!

2 Selection of update file and firmware version

For each series of PLC, please select the applicable upgrade file according to the following table:

Series	Model	Suitable upgrade file
XD1/XL1	XD1-16, XL1-16	XD1-16 sys
	XD1-24/32	XD1-32 sys
	XD1-48/60	XD1-60 sys
XD2	XD2-16	XD2-16 sys
	XD2-24/32	XD2-32 sys
	XD2-48/60	XD2-60 sys
XD3/XL3	XD3-16, XL3-16	XD3-16 sys
	XD3-24/32, XL3-32	XD3-32 sys
	XD3-48/60	XD3-60 sys
ZG	ZG3-30	ZG3-30.sys
	ZG3-20	ZP3-18.sys
	ZGM-30T4	ZGM-30T4.sys
ZP	ZP3-18	ZP3-18.sys
XD5/XL5 (Version 3.4.5 and below)	XD5-16	XD5-16.sys
	XD5-24/32	XD5-32.sys
	XD5-24T4/32T4, XL5-32T4	XD5-32T4.sys
	XD5-48/60	XD5-60.sys
	XD5-60T6	XD5-60T6.sys
XD5/XL5 (Version 3.4.6 and above)	XD5-16/24/24T4/32/32T4, XL5-16/32/24T4/32T4	XD5-32.sys
	XD5-48/48T4/60/60T4	XD5-60.sys
	XD5-48T6/48T10/60T6/60T10	XD5-60T10.sys
XDM	XDM-24T4/32T4	XDM-32T4 sys
	XDM-48T4/60T4	XDM-60T4 sys
	XDM-60T4L	XDM-60T4L sys
	XDM-60T10	XDM-60T10 sys
XD5E/XL5E	XD5E/XL5E (Full series of dual port models)	XD5E sys
	XD5E (Online download model)	XD5E(N) sys

Series	Model	Suitable upgrade file
XDME/XLME	XDME/ XLME full series	XDME sys
	XDME(Online download model)	XDME(N) sys
XDH/XLH	XDH-30A16/XDH-30A16L/XLH-24A16/XLH-24A16L	XDH-A16 sys
	XDH-60A32	XDH-A32 sys
	XDH-60T4	XDH-60 sys
XG	XG1-16T4	XG1-16T4 sys
	XG2-26T4	XG2-26 sys

If the PLC firmware versions are within the same version range, they can be upgraded to each other.

If the PLC firmware versions are in different version range, they cannot be upgraded to each other.

Series	Number	Firmware version range
XD1/XD2/XD3/XDM XL1/XL3	1	V3.1 ~ V3.1.4
	2	V3.2 ~ 3.2.2
	3	V3.3 ~ newest version
XD5/XL5	1	V3.1 ~ V3.1.4
	2	V3.2 ~ V3.2.2
	3	V3.3 ~ V3.4.5
	4	V3.4.6 ~ newest version
XD5E/XDME/XL5E/XLME	1	V3.5 ~ newest version
XDH/XLH	1	V3.7.1~ newest version
XG1	1	V3.5 ~ newest version
XG2	1	V3.7.1~ newest version

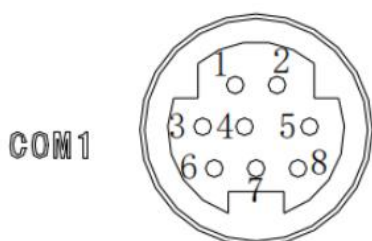
Note: XD5E-30T4 single port model can only be upgraded to V3.5.3b.

3 XD/XL/XG1 Update Steps

①**Cut the PLC power.** Turn off all the software opened on your desktop that may occupy the serial port.

1)Connection between **XD/XL** and computer

Connect PLC COM1 (cannot use other port) with PC.

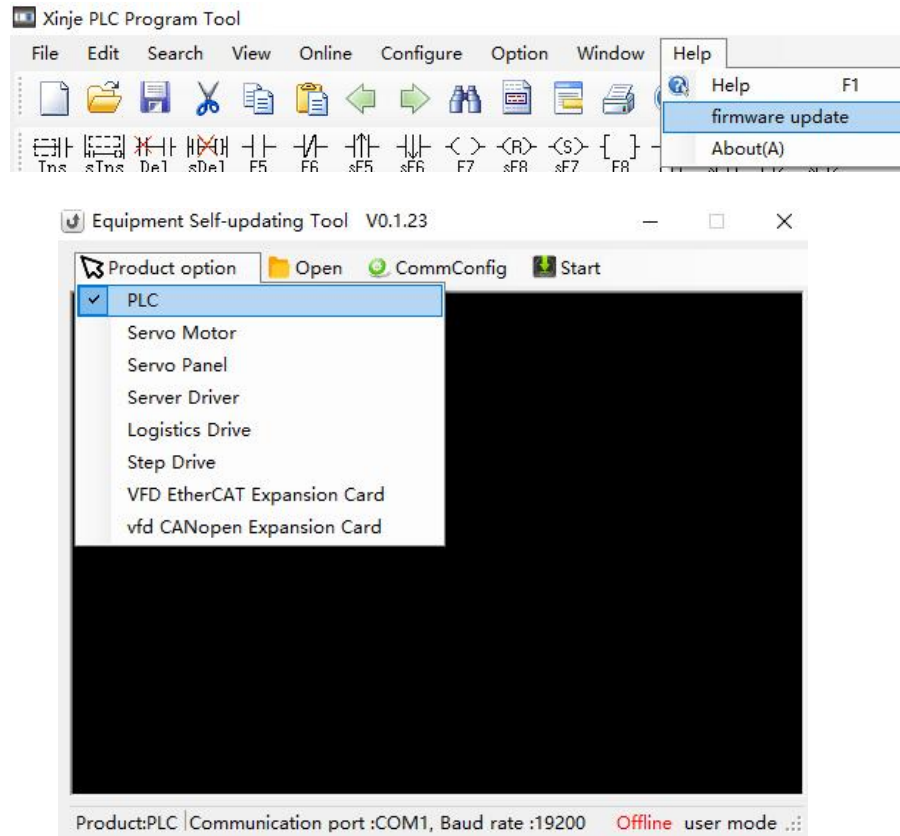


2) Connection between **XG1** and computer

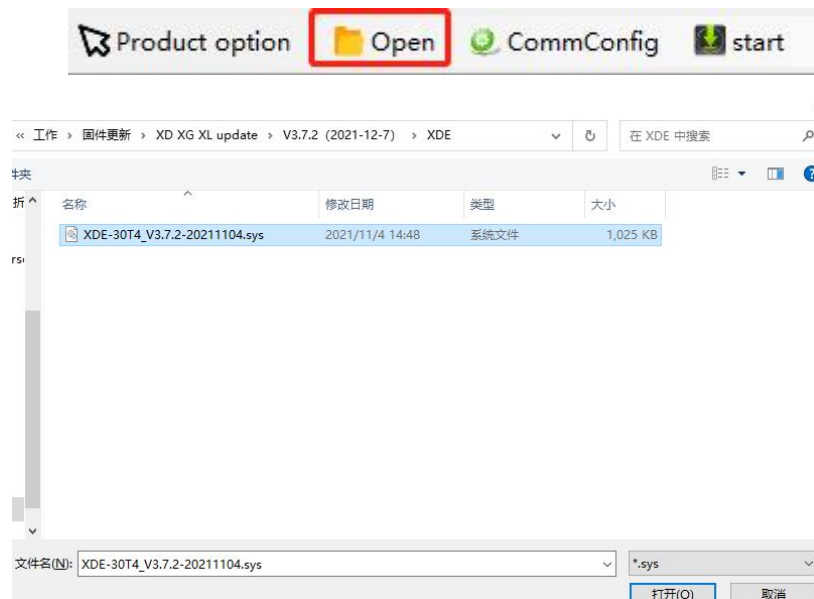
Connect PC and PLC through RS485 serial conversion module.

Note: the COM1 port of XG1 series PLC needs to be connected to the computer through 485 to USB for system update.

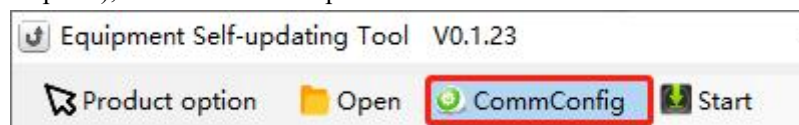
② Open "software of Xinje PLC Program Tool", click "Help" - "firmware update", open the "Equipment Self-updating Tool", check "Product option", and select PLC.

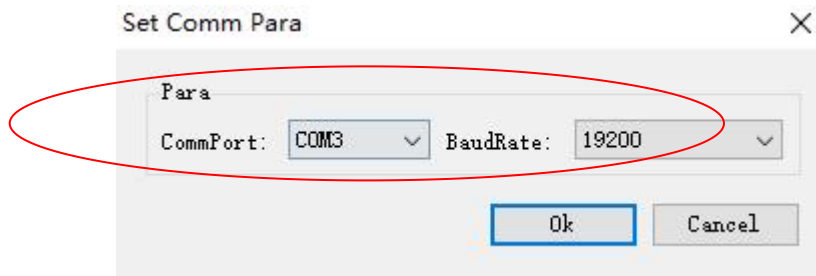


③Click "Open ", choose the PLC model for upgrading (take XDE-30T4 for example).



④Click "CommConfig". Then "Set Comm Para" window will pop up, it only needs to set the com port, no need to change the baud rate. The "Comm port" here refers to the serial port of the computer (which can be found in the device manager of the computer), not the download port of PLC.

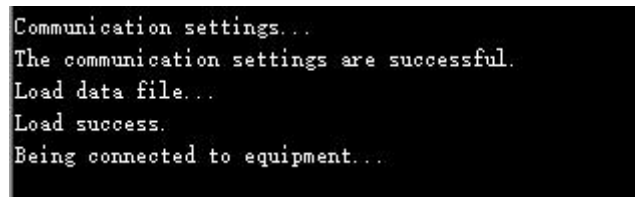




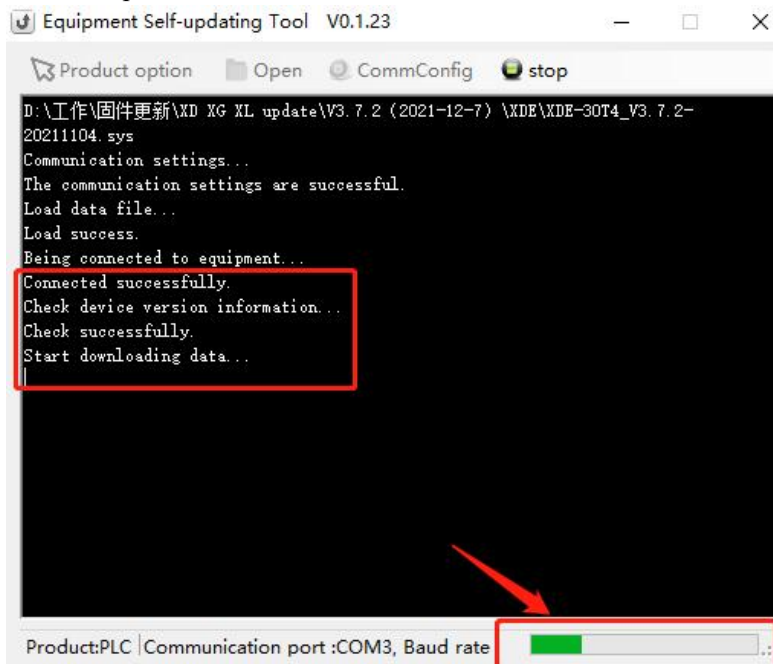
⑤Click "Start".



⑥When the dialog box shows that “Being connected to equipment...”, as shown in the following figure. **Power on the PLC.**



⑦"Start downloading data..." is displayed for automatic update. During the update process, a progress bar will appear. It will take few minutes, please wait.

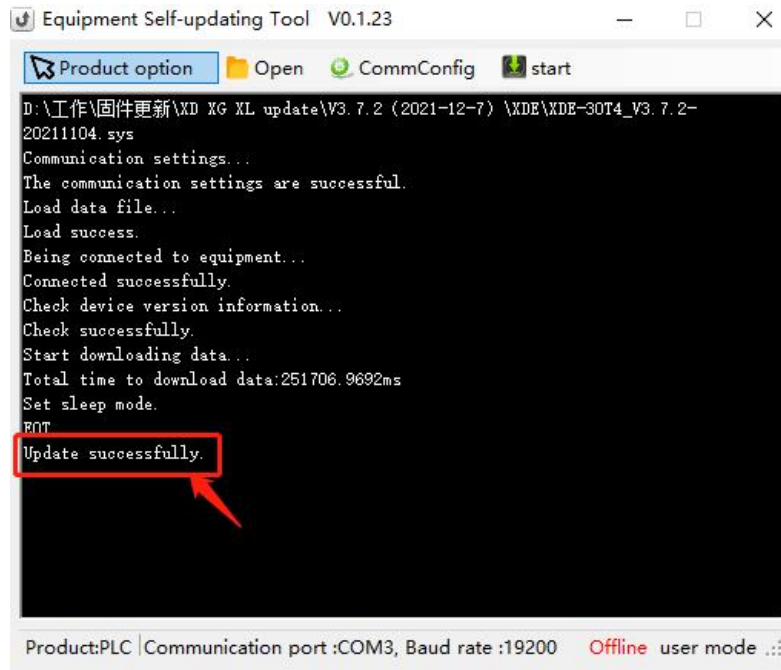


Note: don't cut the power during the upgrading process.

Note: if it is always shown that “being connected to the equipment”, there are two main reasons:

- (1)The selected PLC upgrade version is inappropriate.
- (2)The selected model, number of points, etc. do not match the actual PLC.

⑧When "update successfully" appears, it indicates that the updating is over.



⑨When upgrading succeeded, please cut the power, and give it power again.

⑩Please download an empty program in the PLC. The update is over.

4 XG2(version V3.7.2 and above), XDH/XLH Update Steps

Notes:

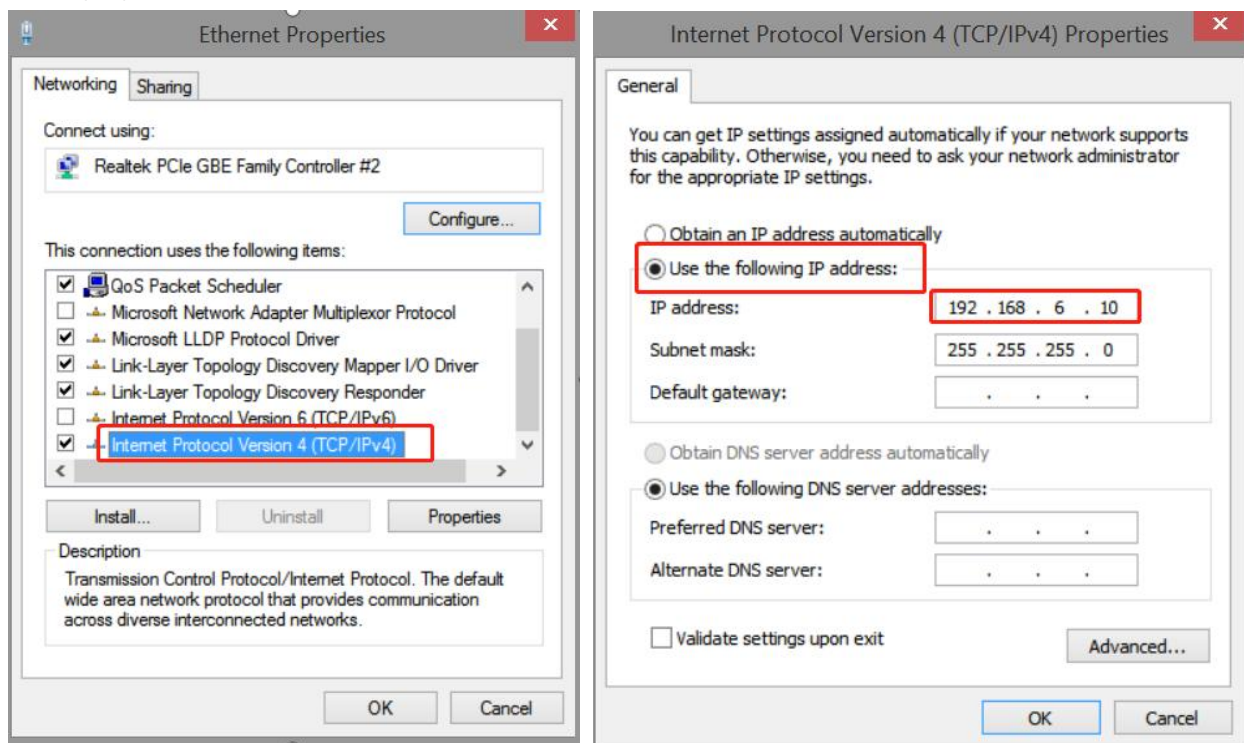
- (1) XDH/XLH must use the RJ45 port.
- (2) XG2 V3.7.2 and above versions are recommended to use the RJ45 port brush, and the serial port speed is slow.
- (3) After XDH is upgraded to 3.6.1b and above, you must use 3.7.0 and above software to connect to PLC.

STEPS:

- ① PLC shall be in normal operation.
- ② The computer is directly connected with the PLC network port through the network cable.

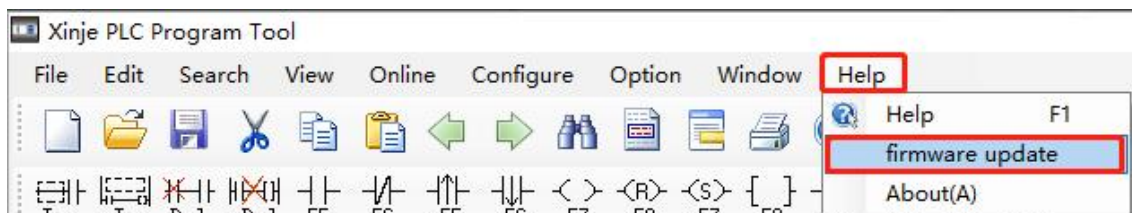
If the PLC is not the default IP, configure the computer as the corresponding network segment.

If the default IP of PLC is **192.168.6.6**, configure the computer IP as 6 network segments, as shown in the following figure:

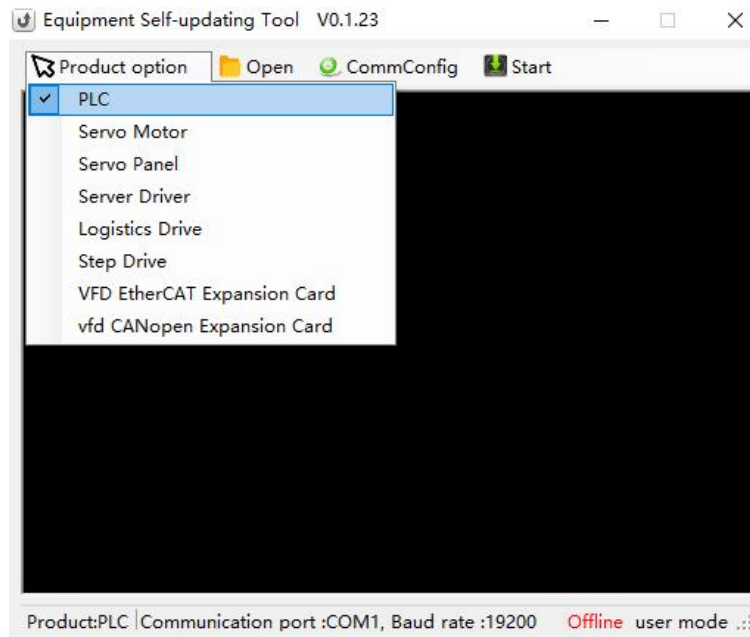


- ③ Open "software of Xinje PLC Program Tool"(version 3.7.4 and above), click "Help" - "firmware update", open the "Equipment Self-updating Tool" or the latest brush tool .

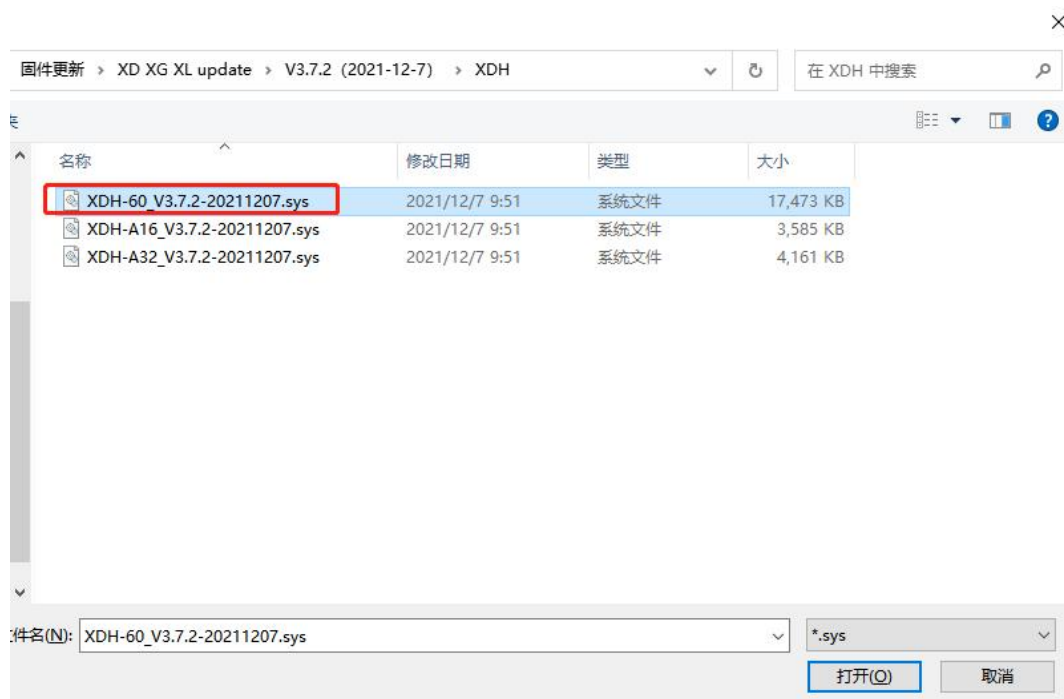
Note: Old brush tools cannot be used to update.



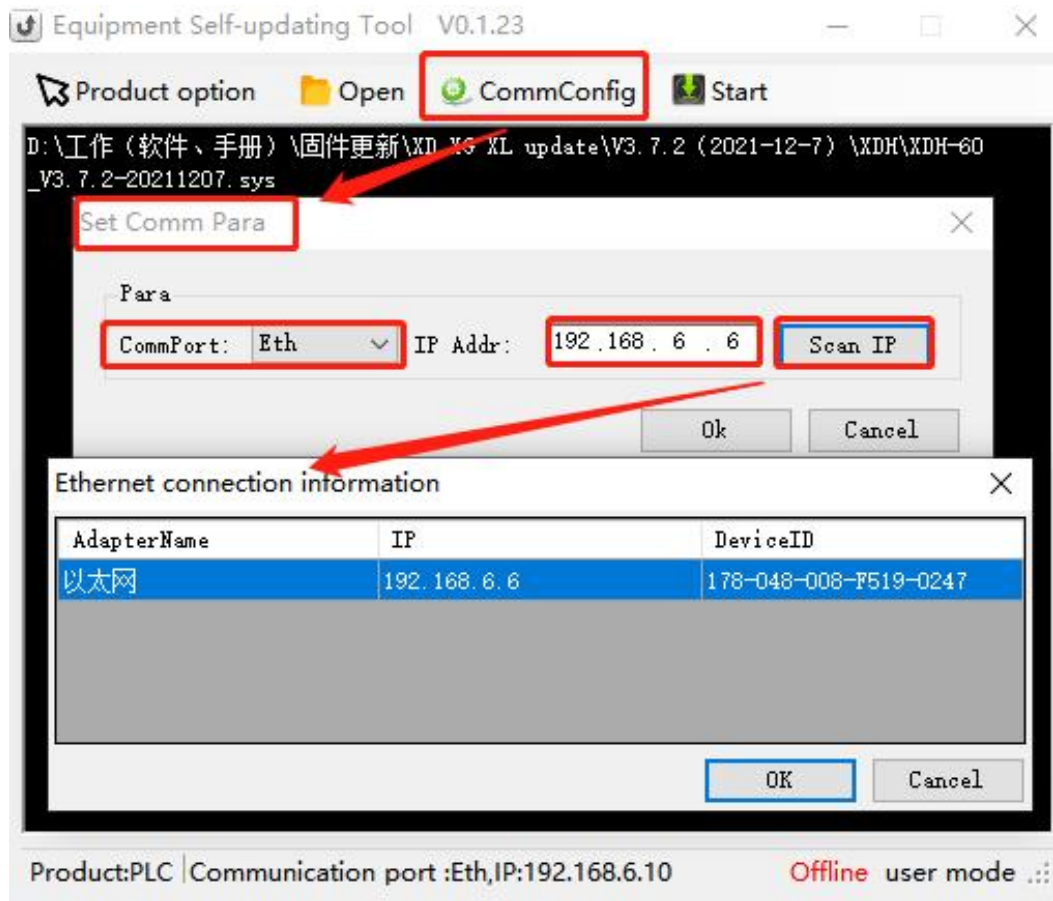
- ④ Pop up "Equipment self-updating Tool" interface. Choose PLC in Product option.



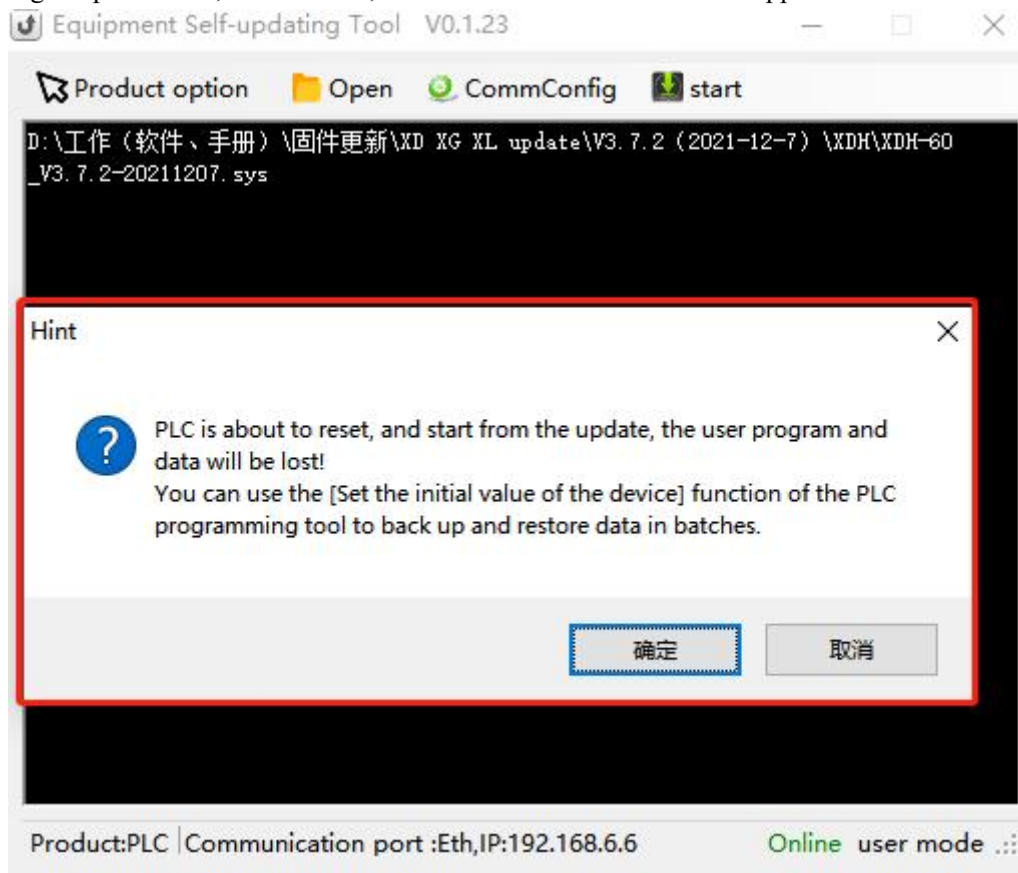
- ⑤ Click "Open ", choose the PLC model for upgrading (take XDH-60T4 for example).
Click "Open" after selecting it.



- ⑥ Click the "CommConfig" option, and "Set Comm Para" interface will appear.
Select "Eth" Commport, for the communication port and set the IP address which is the IP address of the LAN1 network port of the PLC. Or click "scan IP" to search the IP address.

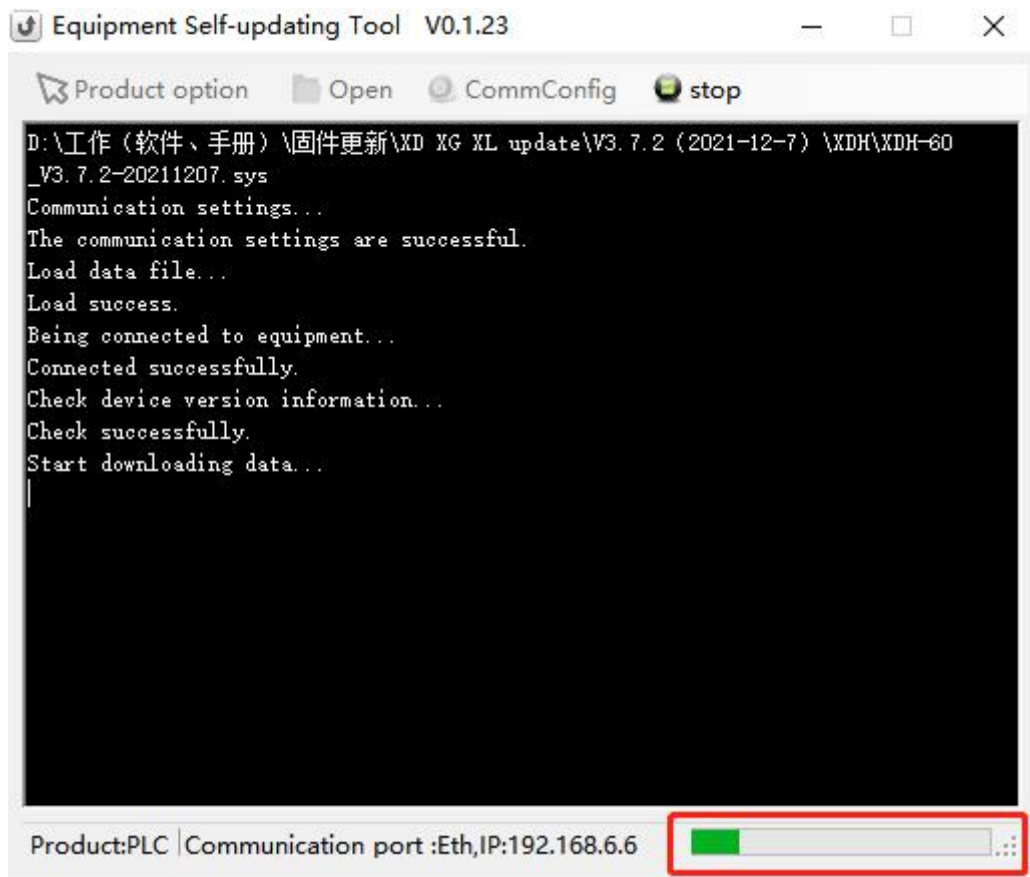


⑦ After setting the parameters, click "start", and the hint interface below will appear.

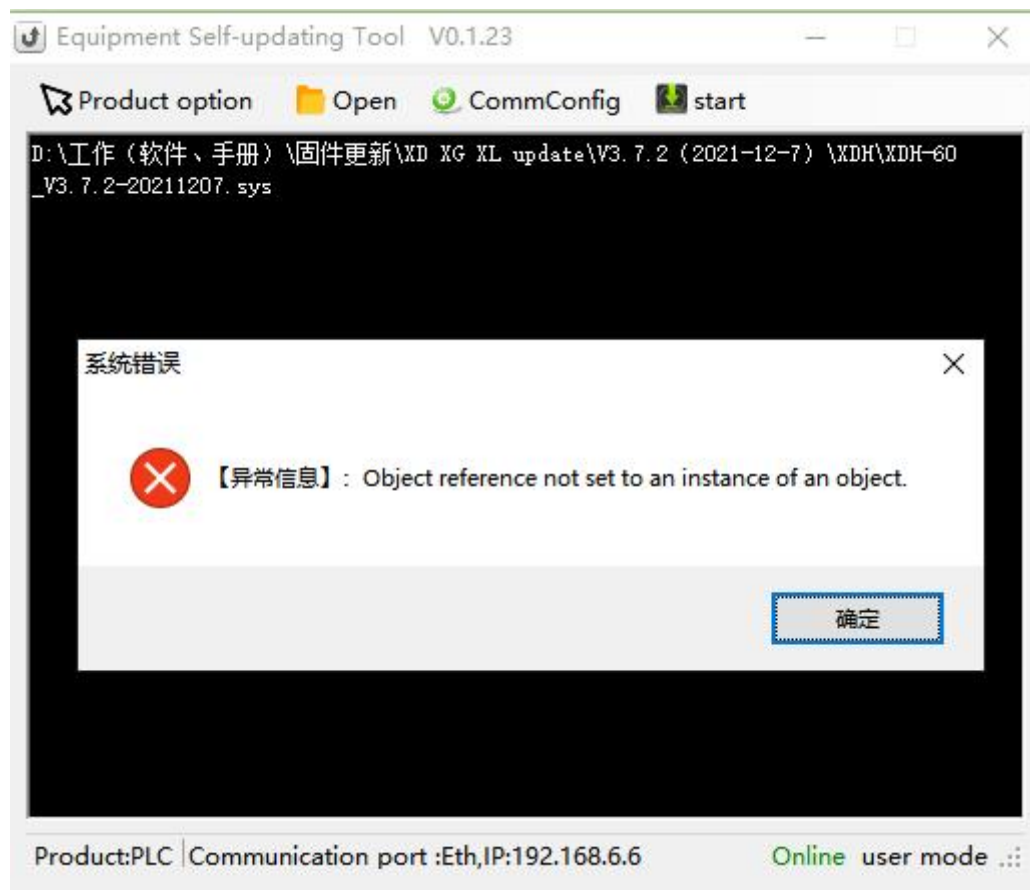


Click OK, and a progress bar will appear in the lower right corner, indicating that PLC has started to update itself,

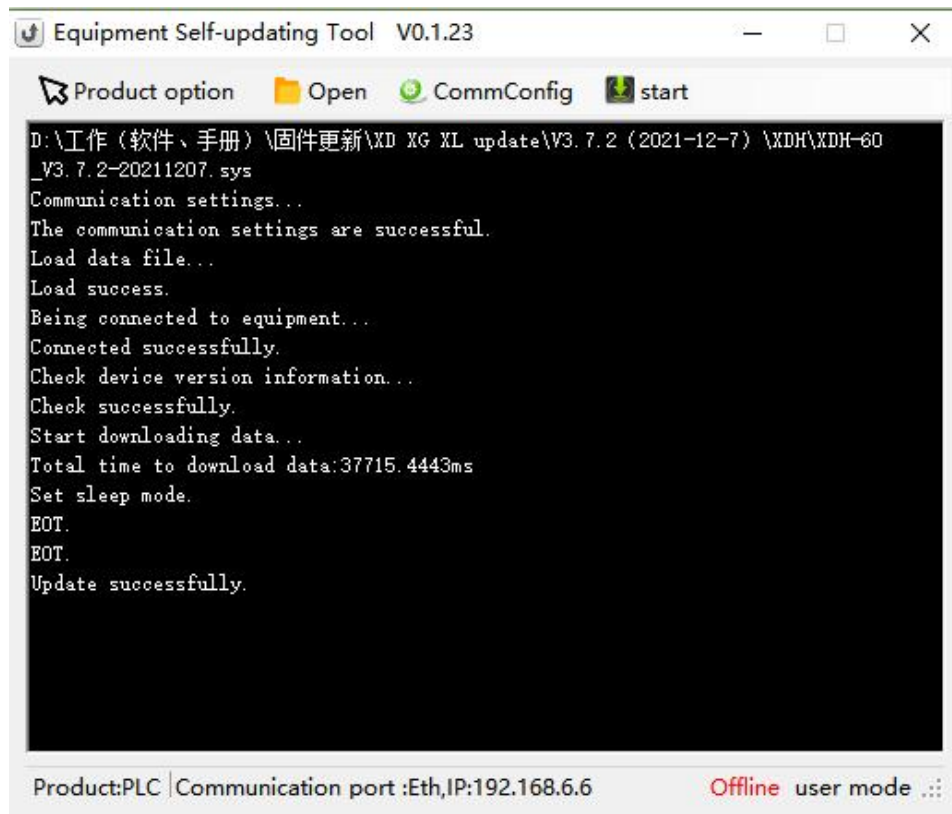
which may take several minutes.



Note: If the interface below pop up after clicking start, please click start again.



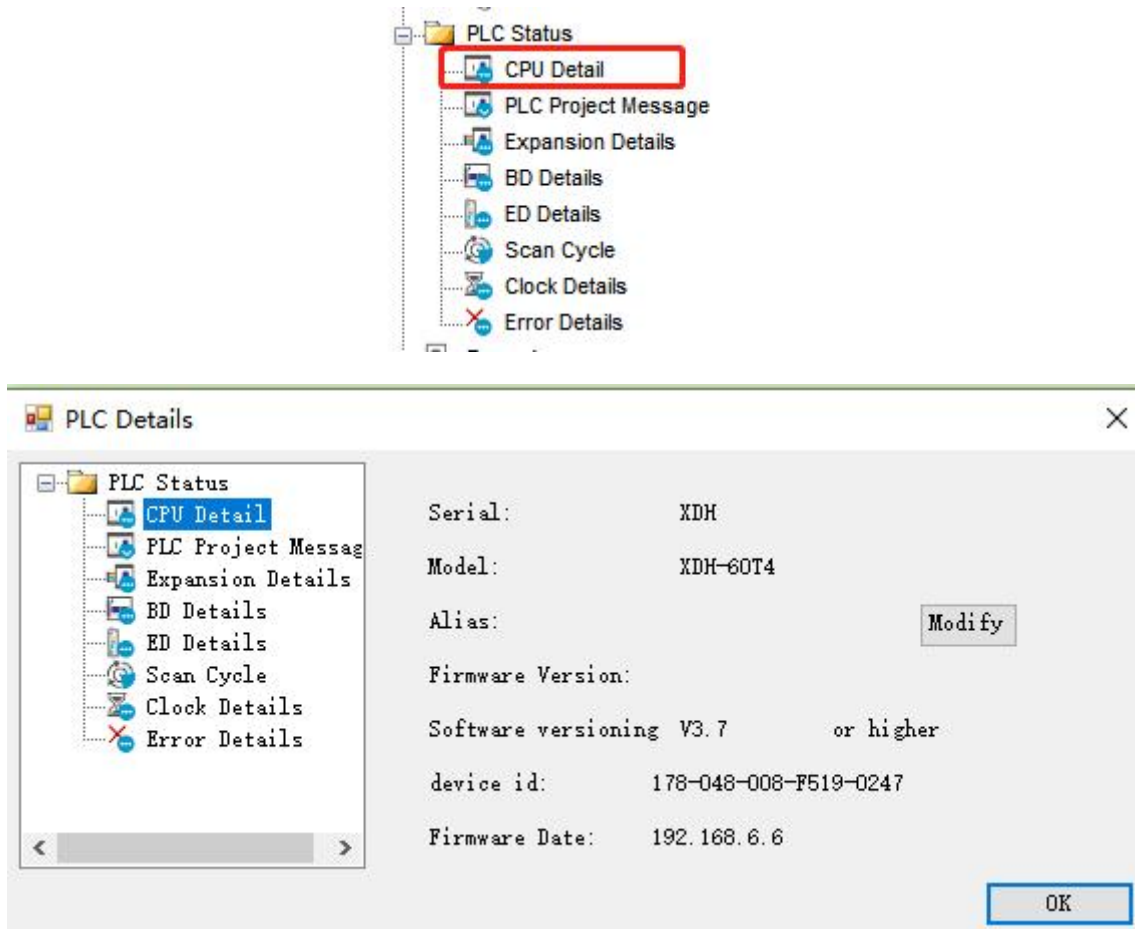
⑧ When "update successfully" appears, it indicates that the PLC has been updated. At this time, close the update tool, power on the PLC again, download the empty program, and the PLC update is over.



Appendix

① View firmware version

In the online state, the PLC firmware version can be viewed in the "Project"- "PLC status" on the left side of the editing software. Find the "CPU detail" and click it to display the "PLC details" window:



② In the process of PLC system self-update, do not power off the PLC or power off instantly, otherwise the PLC will not be able to carry out system self-update.

In case of this situation (usually it will show that the sending data fails, the ID does not match, and there is no response to power on again, etc.), please contact the agent or manufacturer if the system self-update of PLC cannot be carried out!

③ When the PLC firmware is updated, the original program in it will be lost!

④ Some 24-point I/O PLC models will change to 32-point I/O after self updating, because 24-point PLC and 32-point PLC use the same CPU board, which will not affect the performance of PLC. Please rest assured.

⑤ In the process of PLC system self updating, if the prompt "ID does not match", it may be the problem of USB string transfer tool. Please replace the USB string transfer tool or use the computer with nine pin serial port to operate again.