

AX88772C/AX88772B/AX88772A/AX88760/AX88772 macOS Driver Quick Installation Guide

Revision 1.00
August 10th, 2020

Revision History

Revision	Date	Description
1.00	2020/08/10	Initial release.

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1. Introduction

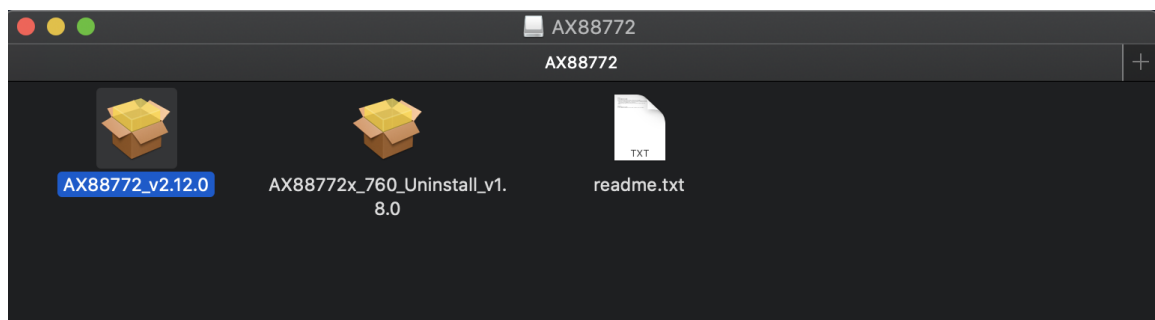
This document contains the installation and uninstallation information of AX88772C/AX88772B/AX88772A/AX88760/AX88772 macOS drivers.

2. Driver Installation Procedures

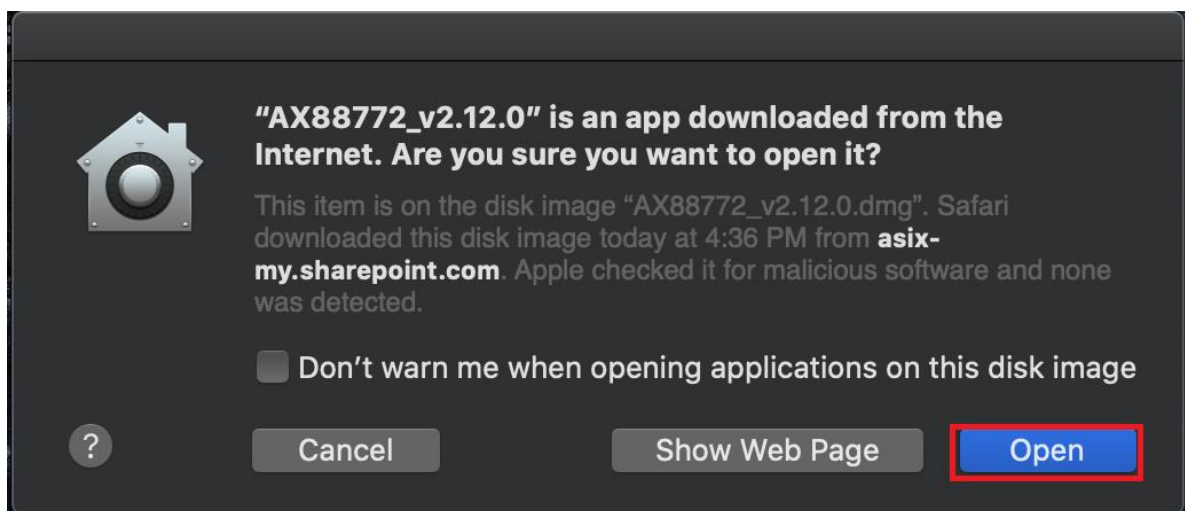
The AX88772C/772B/772A/760/772 macOS driver installation package is “**AX88772_.dmg**”.

The following is an example of ASIX's AX88772C/AX88772B/AX88772A/AX88760/AX88772 macOS driver installation procedures.

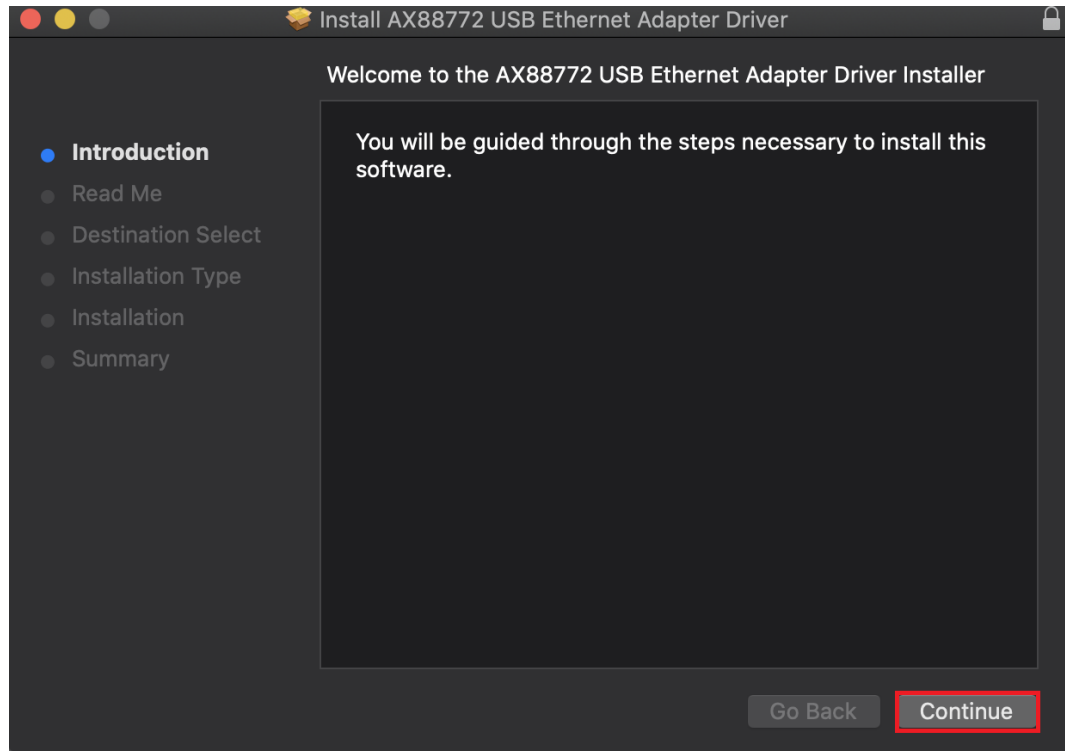
Step 1: Click the “**AX88772_.dmg**”, the following “AX88772” virtual disk will be appeared on the Desktop of your macOS system. (This “AX88772” virtual disk will be auto-removed after rebooting macOS system.)



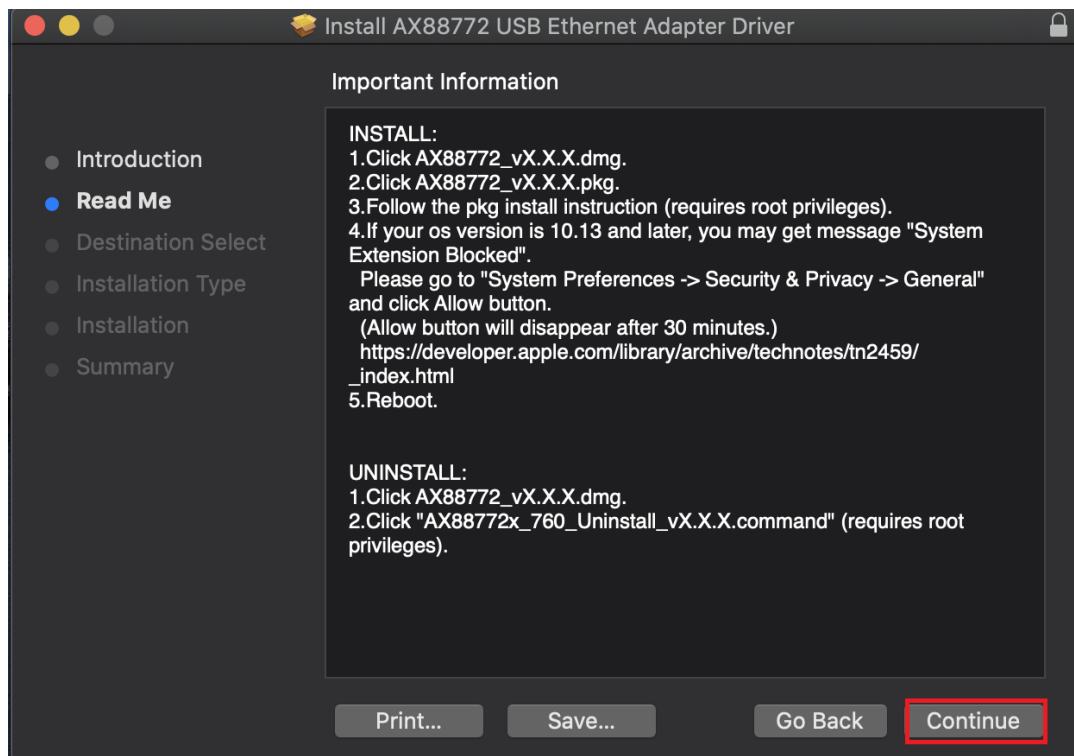
Step 2: Click the “**AX88772__vx.x.x.pkg**” (“x.x.x” is driver installer revision number), the following driver setup dialog will appear. Click the [Open] button to start the installation operation and follow the instructions to continue the installation.



Step 3: Click the “**AX88772_vx.x.x.pkg**” (“x.x.x” is driver installer revision number), the following driver setup dialog will appear. Click the [Continue] button to start the installation operation and follow the instructions to continue the installation.



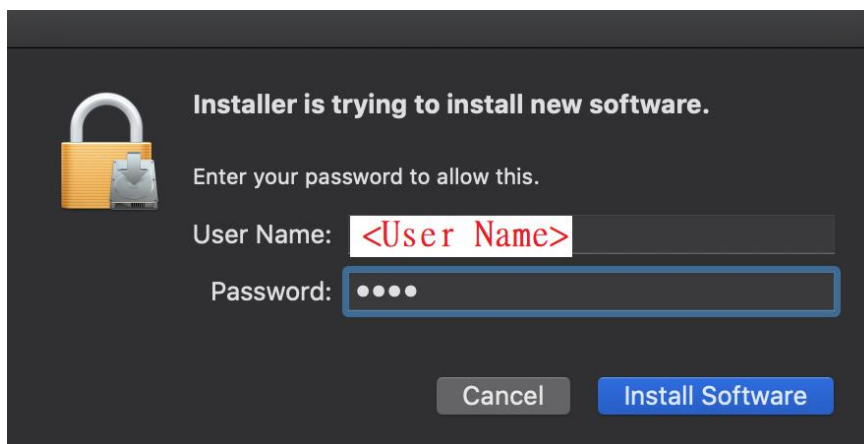
Step 4: Read the information of “Read Me” page first and press [Continue] button to continue the installation operation.



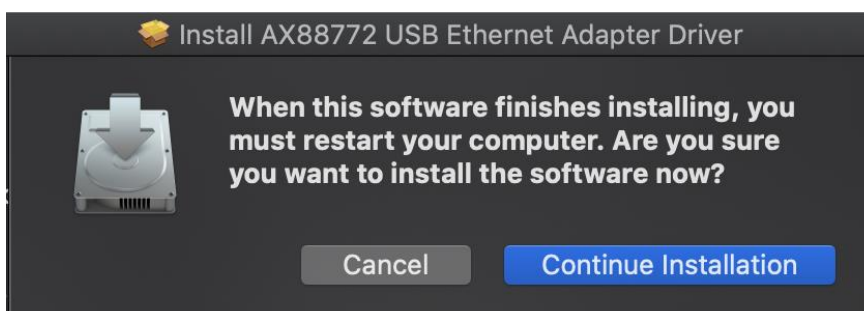
Step 5: Click the [Install] button to continue the installation operation.



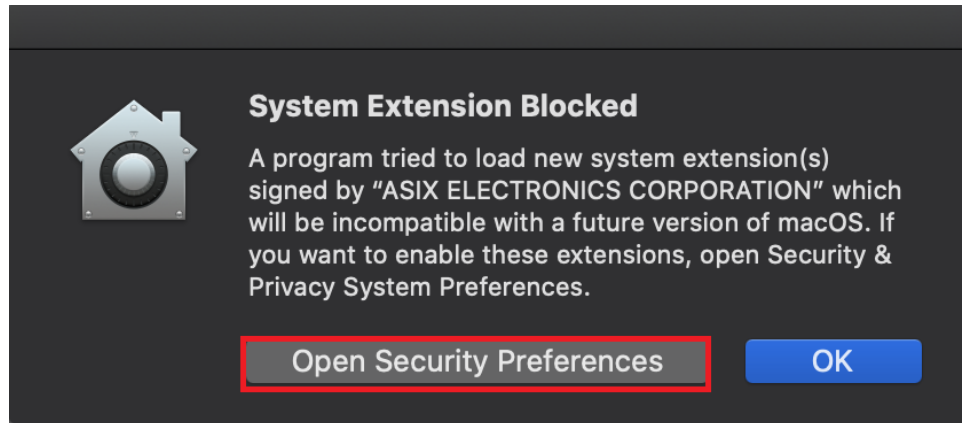
Step 6: You might need to enter your user/password during the driver installation.



Step 7: Click the [Continue Installation] button to continue the installation operation.

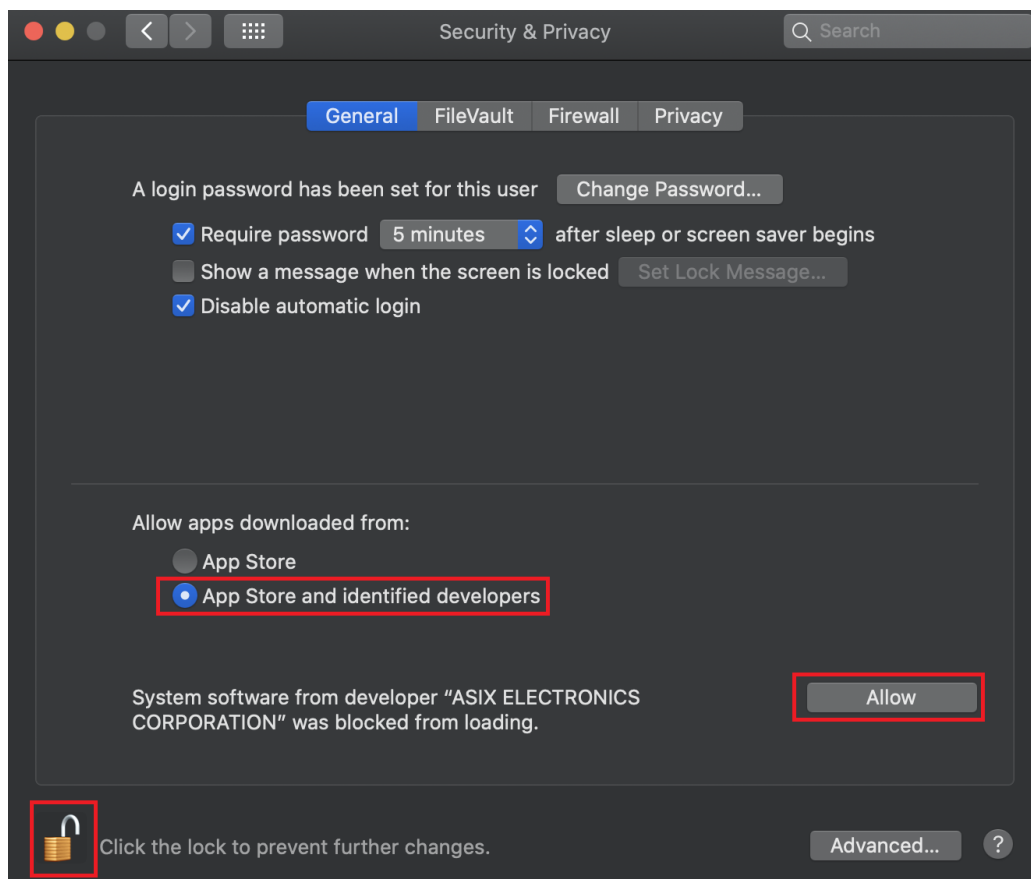


Step 8: Click the [Open Security Preference] button to continue the installation operation.

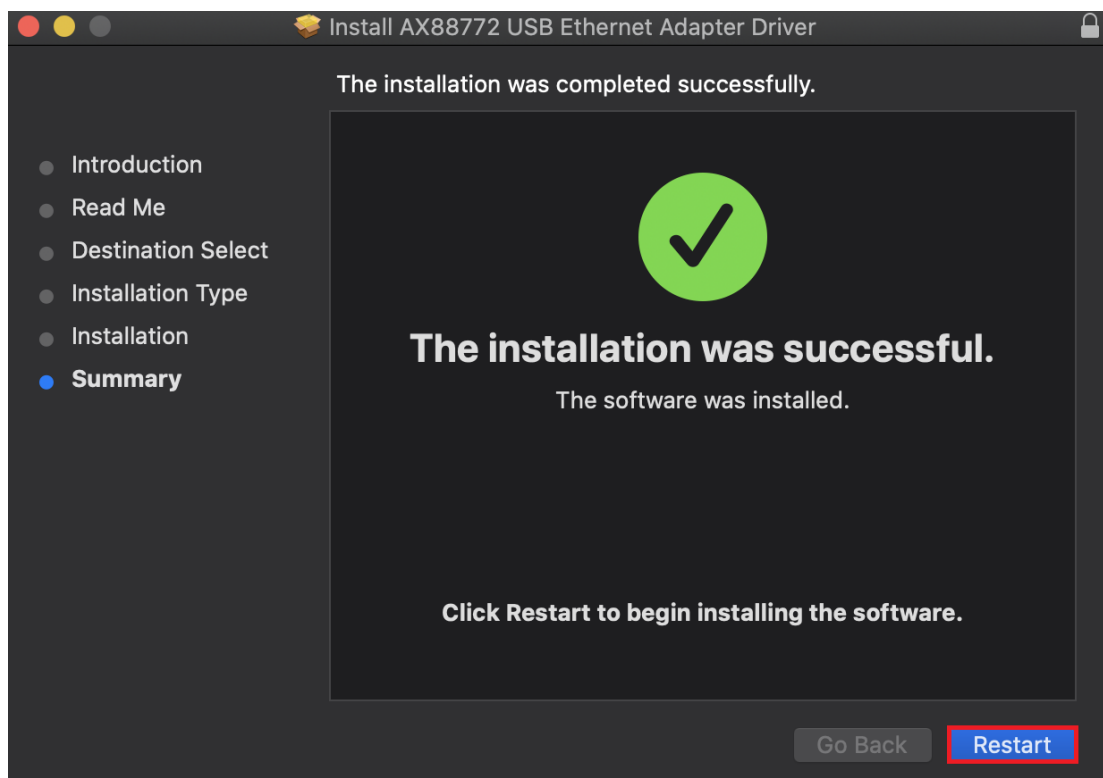


Note: This step is necessary, macOS 10.13 and above has a new feature that requires user approval before loading newly-installed third-party kernel extensions (KEXTs). If you do not click "Open Security Preferences" button to allow it as next step, the driver will be not installation well.

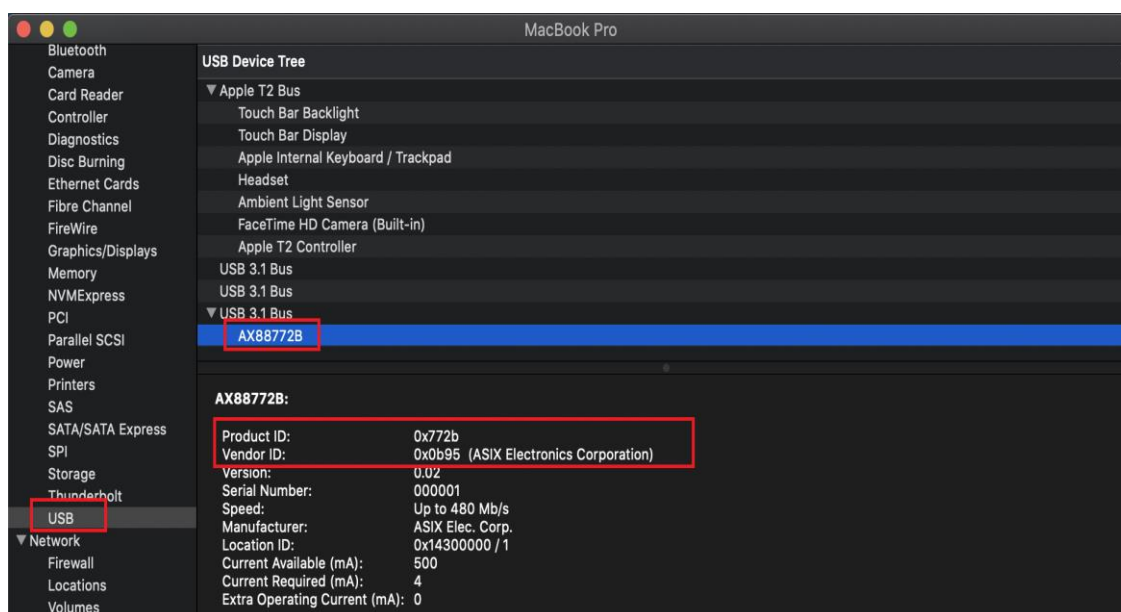
Step 9: Click the lock to prevent further changes, then press [Allow] button to continue the driver installation.

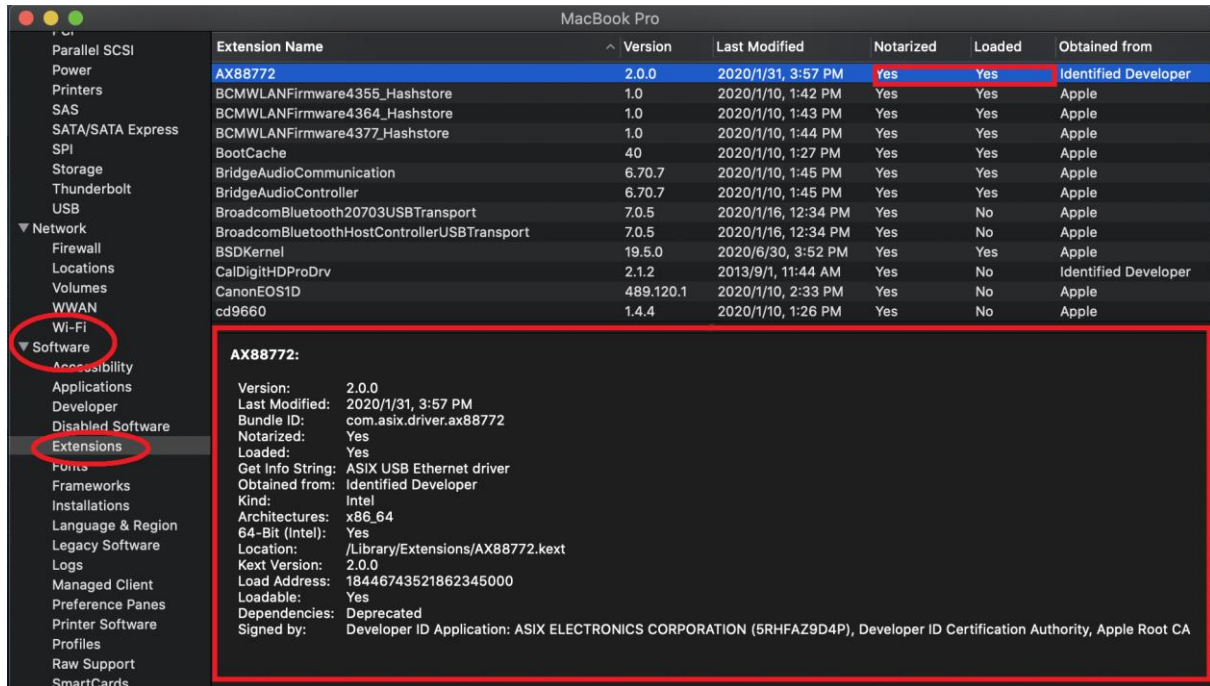


Step 10: Click the [Restart] button to restart macOS system to take effect the revised driver installation.

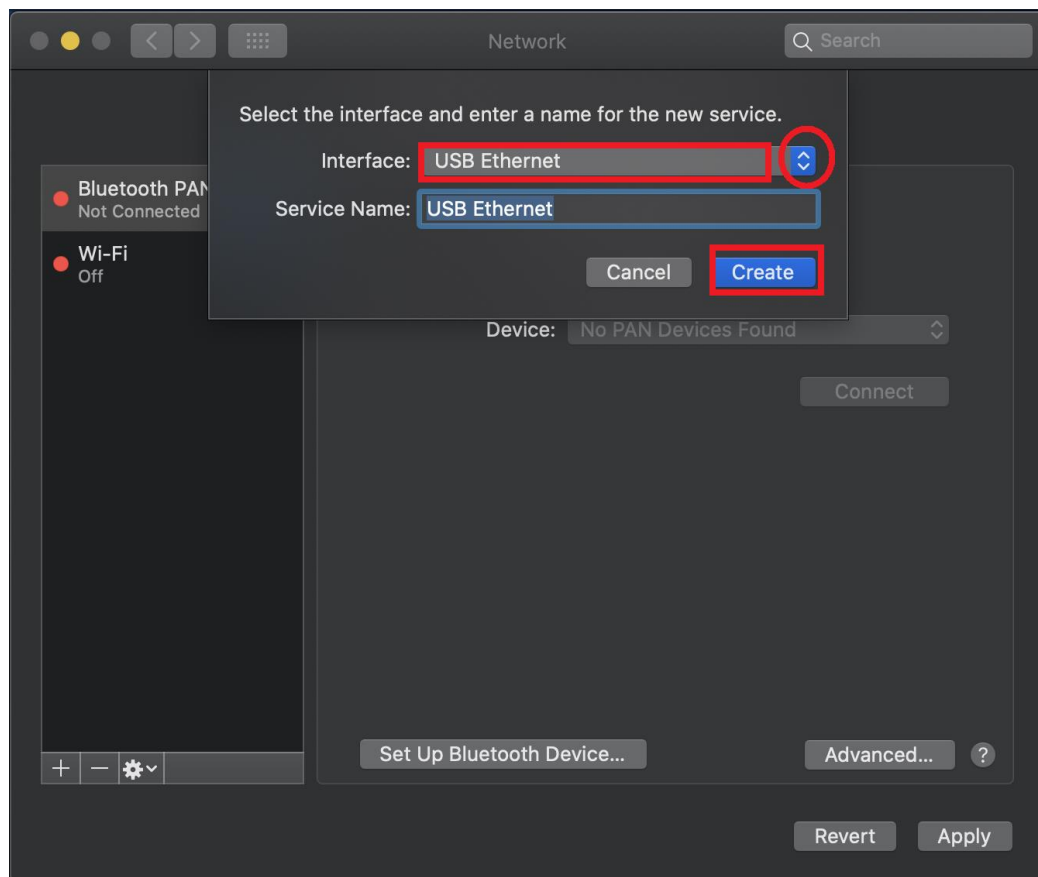


Step 11: After booting up your macOS system, plug your AX88772C/772B/772A/760/772 USB dongle onto the USB port of your macOS system and refer to the following information to double check if your USB dongle had been identified properly by macOS system and the AX88772C/772B/772A/760/772 macOS driver was installed correctly or not.

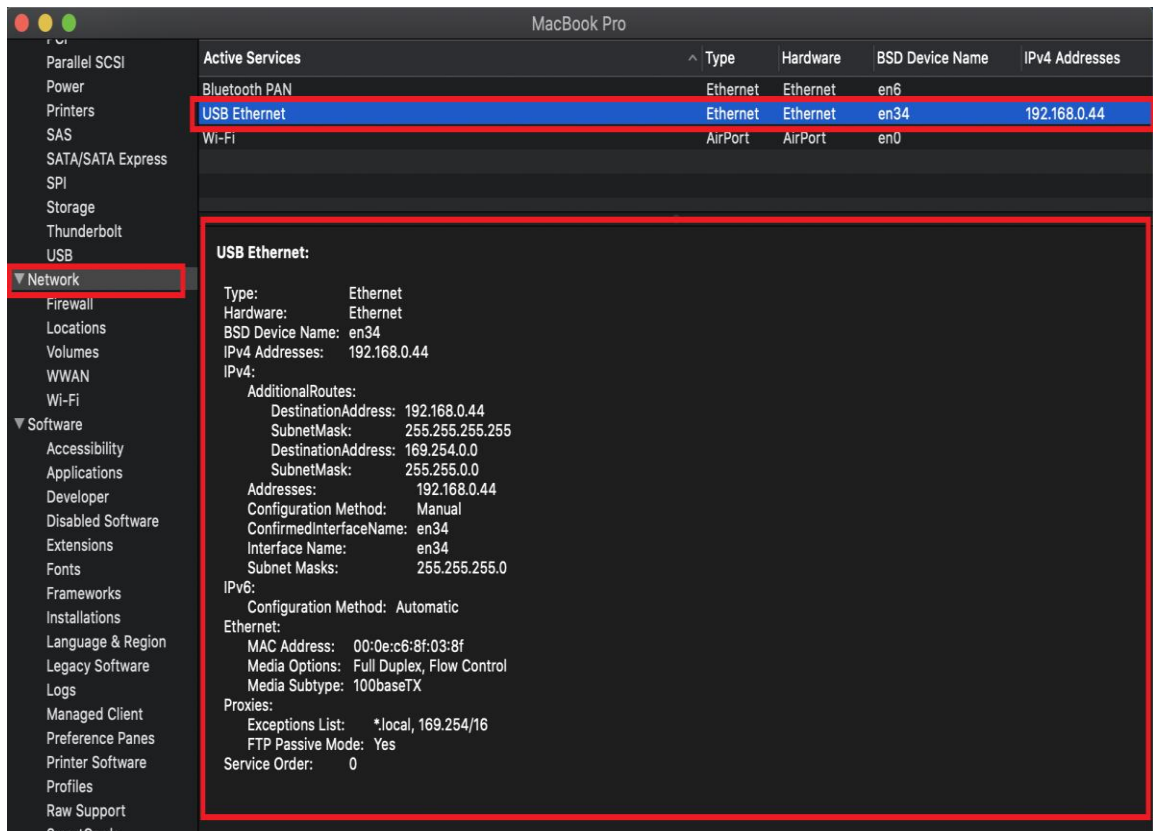
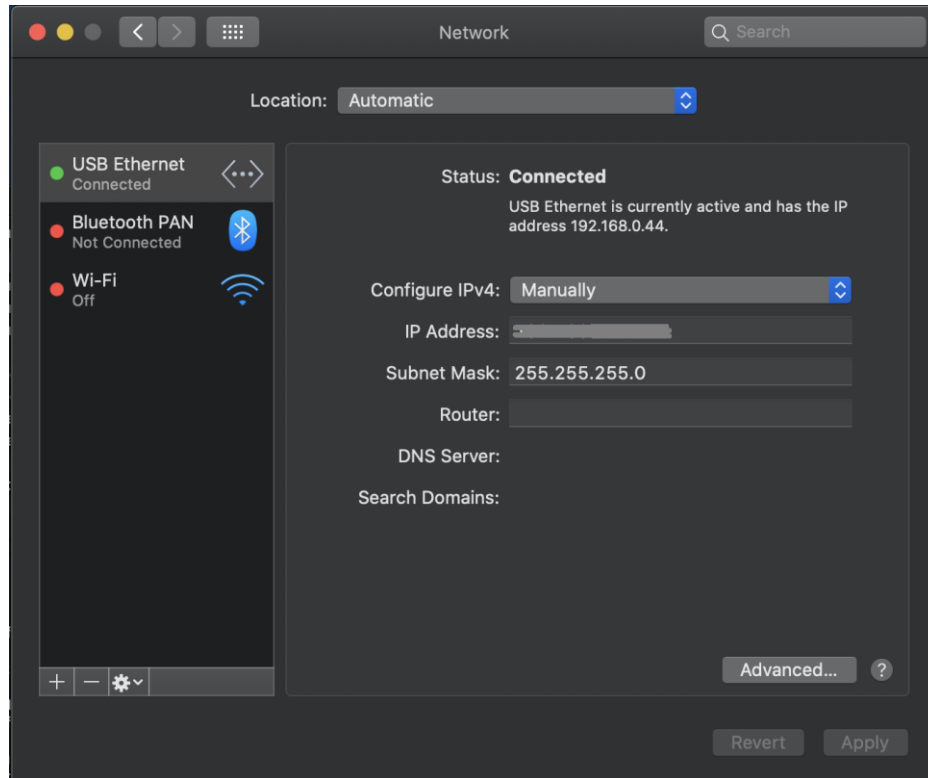




Step 12: Please refer to below figure to add a new “USB Ethernet” network interface and then press the [Apply] button to take effect the new network interface.



Step 13: The new “USB Ethernet” driver should be ready now.

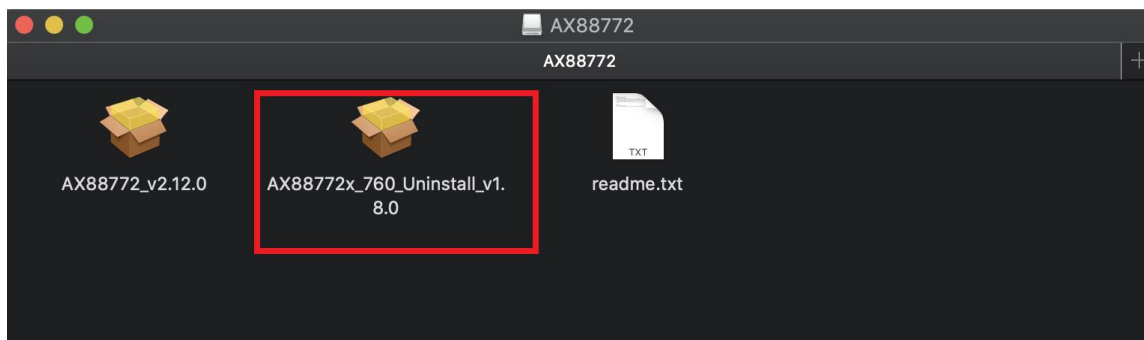


3. Driver Uninstallation Procedures

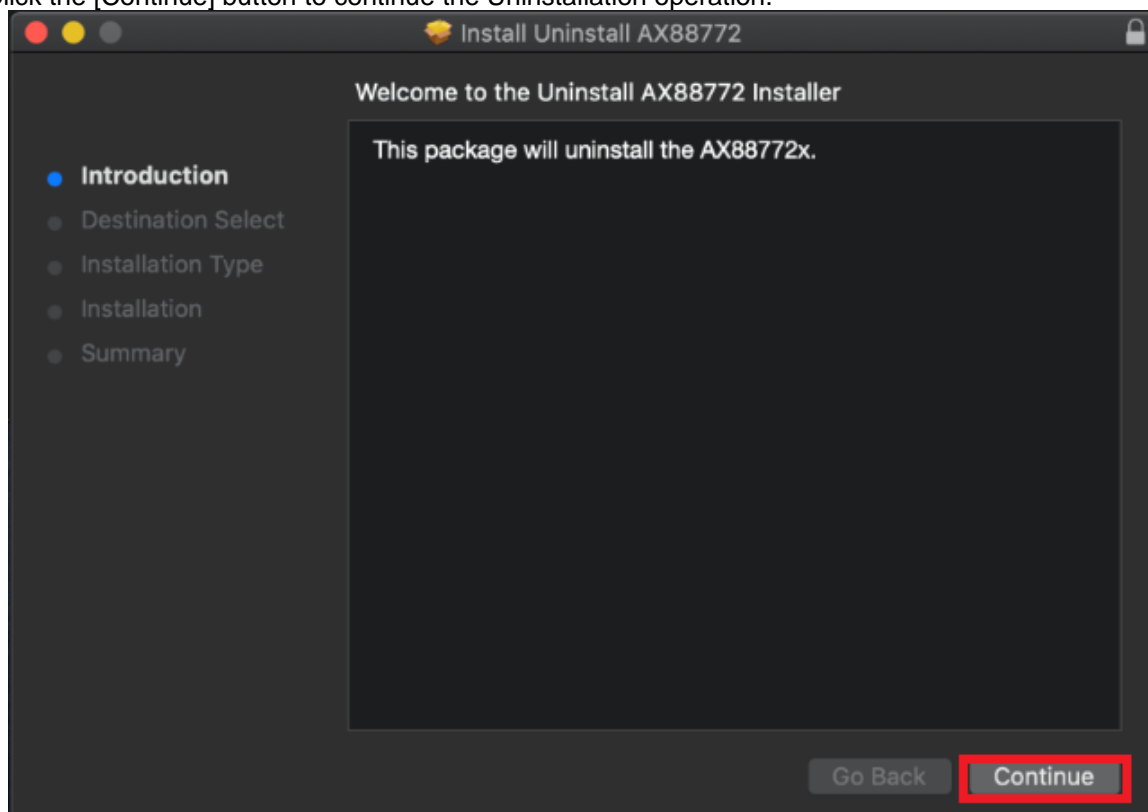
The AX88772C/772B/772A/760/772 macOS driver uninstallation utility is “AX88772x_760_Uninstall_vxxx” (xxx is the revision number of the driver uninstaller utility).

The following is an example of AX88772C/772B/772A/760/772 macOS driver uninstallation procedures.

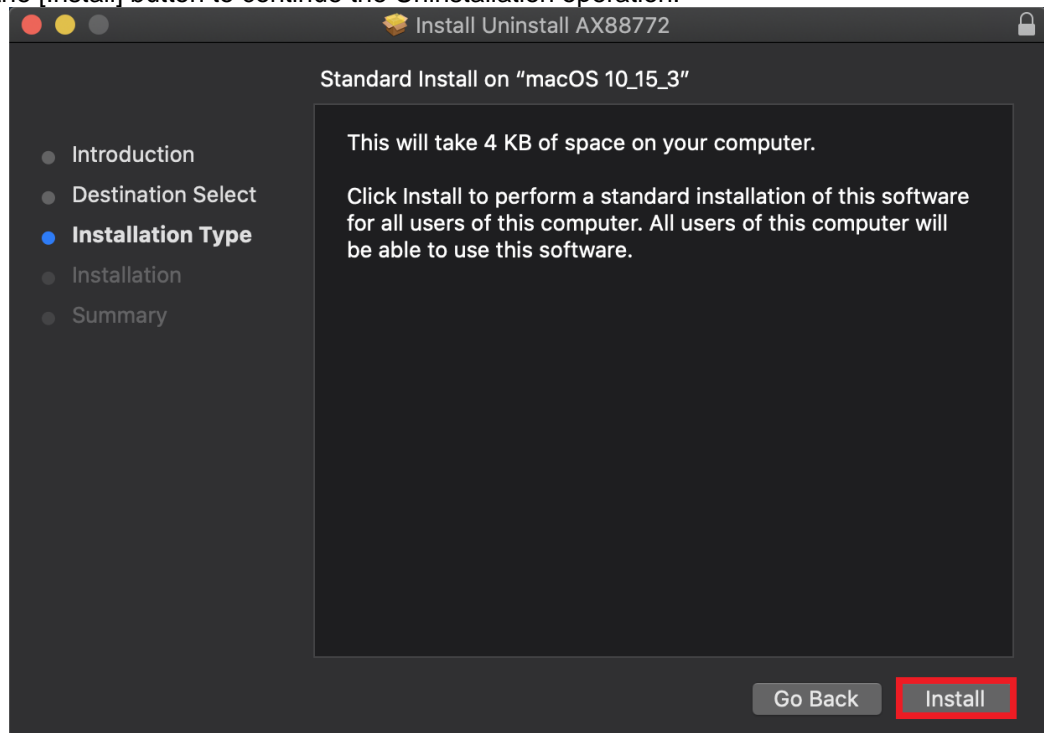
Step 1: Click the “AX88772_.dmg”, the following “AX88772” virtual disk will be appeared on the Desktop of your macOS system. (This “AX88772” virtual disk will be auto-removed after rebooting macOS system.)



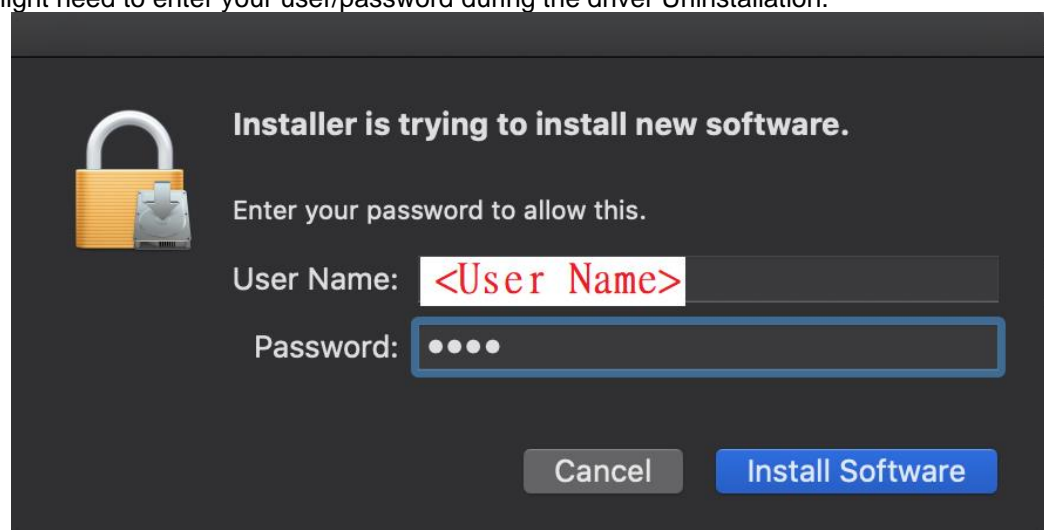
Step 2: Click the [Continue] button to continue the Uninstallation operation.



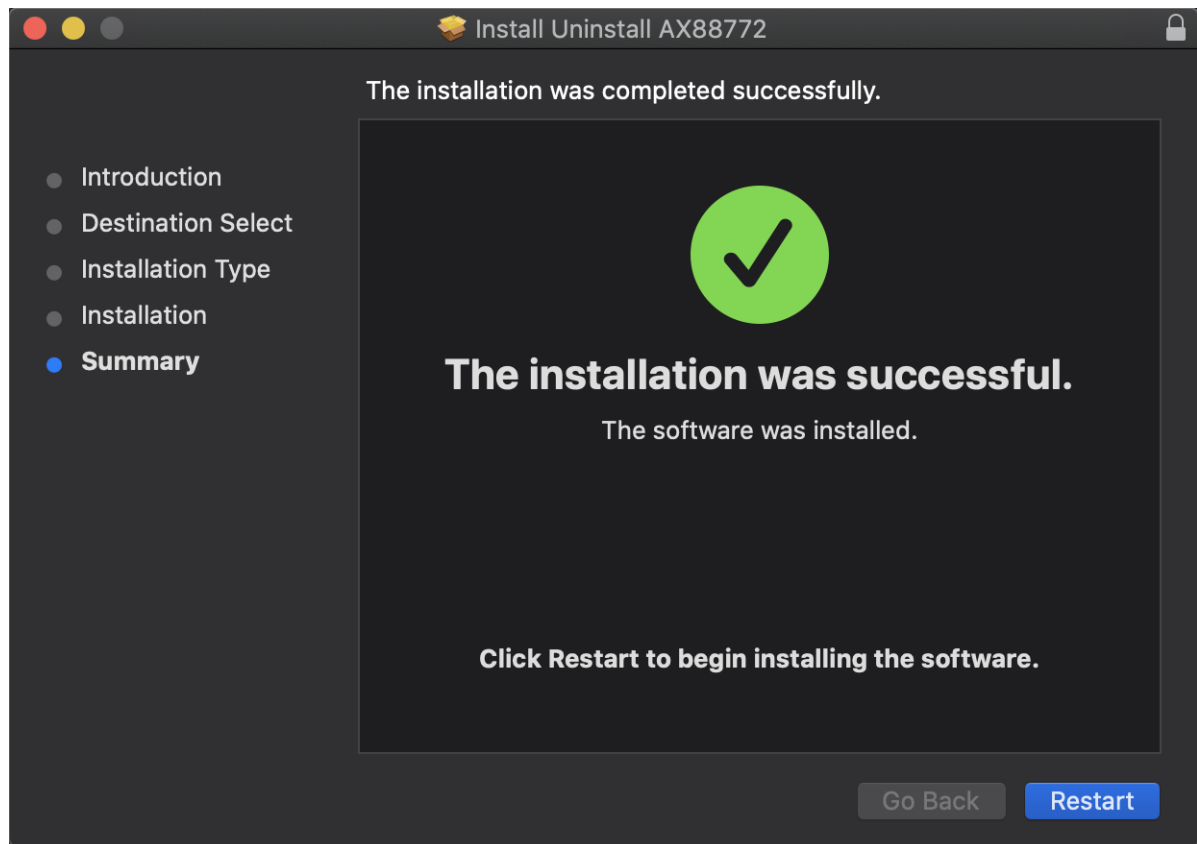
Step 3: Click the [Install] button to continue the Uninstallation operation.



Step 4: You might need to enter your user/password during the driver Uninstallation.



Step 5: Click the [Close] button to complete driver Uninstallation.



4. FAQs

4-1. Where can I obtain the latest AX88772C/AX88772B/AX88772A/AX88760/AX88772 macOS driver?

Please visit the below Driver Download web page
(<https://www.asix.com.tw/download.php?sub=driver>) for details.

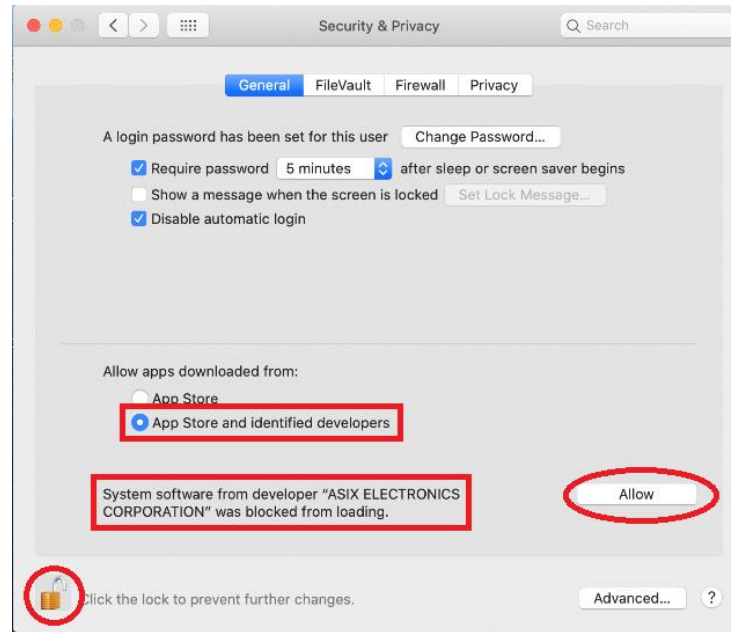
4-2. How to isolate driver failure issues after upgrading macOS system?

Please refer to below procedures to isolate the driver failure issues after upgrading macOS system.

1. Please refer to Section 3 to uninstall clearly the previous revision AX88772C/AX88772B/AX88772A/AX88760/AX88772 macOS driver firstly.
2. Please refer to Section 2 to install the latest AX88772C/AX88772B/AX88772A/AX88760/AX88772 macOS driver to see if the driver can work fine now or not?
3. If you saw below error message during running AX88772C/AX88772B/AX88772A/AX88760/AX88772 macOS driver installer, please refer to below figures to press “**Allow**” button to allow ASIX AX88772C/AX88772B/AX88772A/AX88760/AX88772 macOS driver to be loaded on macOS 10.13 or above system. You can refer to below URL for details. If you don’t want to see this error message any more, you can set the “Allow apps downloaded from” option on the “Security & Privacy” console to “**App Store and identifier developers**” as below figure.

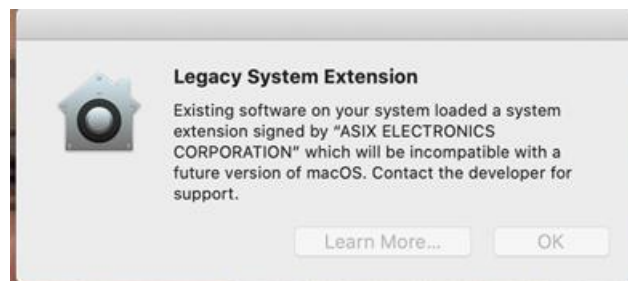
https://developer.apple.com/library/content/technotes/tn2459/_index.html///apple_ref/doc/uid/DTS40017658





4. If you still have problems, please unplug/re-plug your AX88772C/AX88772B/AX88772A/AX88760/AX88772 dongle to see if it can improve your issues or not?
5. If you still have problems, the issues are caused by potential hardware compatibility issues on your suspected AX88772C/AX88772B/AX88772A/AX88760/AX88772 dongle, please contact the manufacturer support guys of your suspected AX88772C/AX88772B/AX88772A/AX88760/AX88772 dongle to isolate your issues.

4-3. I get the following popup dialog after updating to Mac OS 10.15.4



We have noticed this event since System extensions on macOS Catalina (10.15) allow software like network extensions and endpoint security solutions to extend the functionality of macOS without requiring kernel-level access. It's just remind developer/user and does not have any impact on the use AX88772C/AX88772B/AX88772A/AX88760/AX88772 dongle. We will release the revised driver onto download page once the driver is available.

<https://developer.apple.com/support/kernel-extensions/>

4-4. If driver is not loaded by system after driver installed.

if the driver is not loaded by system after driver installed complete, please load the driver by manual.

MacBook Pro							
Printers	Extension Name	Version	Last Modified	Notarized	Loaded	Obtained from	
SAS	AppleXserveRAID	489.120.1	2020/1/10, 2:33 PM	Yes	No	Apple	
SATA/SATA Express	ArcMSR	1.4.0	2019/8/19, 11:33 AM	Yes	No	Identified Developer	
SPI	asp_tcp	8.1	2020/1/10, 1:27 PM	Yes	No	Apple	
Storage	ATTOCelerityFC8	3.26.0	2018/5/9, 3:06 AM	Yes	No	Identified Developer	
Thunderbolt	ATTOExpressSASHBA2	2.61.0	2018/5/7, 9:53 PM	Yes	No	Identified Developer	
USB	ATTOExpressSASRAID2	3.7.6	2018/5/7, 9:54 PM	Yes	No	Identified Developer	
▼ Network	AudioAUUC	1.70	2020/6/30, 3:52 PM	Yes	No	Apple	
Firewall	autofs	5.0	2020/1/10, 1:28 PM	Yes	Yes	Apple	
Locations	AX88179_178A	2.0.0	2020/1/22, 9:21 AM	Yes	No	Identified Developer	
Volumes	AX88772	2.0.0	2020/1/31, 3:57 PM	Yes	No	Identified Developer	
WWAN	BCMWWANFirmware4355_Hashstore	1.0	2020/1/10, 1:42 PM	Yes	Yes	Apple	
Wi-Fi	BCMWWANFirmware4364_Hashstore	1.0	2020/1/10, 1:43 PM	Yes	Yes	Apple	
▼ Software	BCMWWANFirmware4377_Hashstore	1.0	2020/1/10, 1:44 PM	Yes	Yes	Apple	
Accessibility	BootCache	40	2020/1/10, 1:27 PM	Yes	Yes	Apple	
Applications	BridgeAudioCommunication	6.70.7	2020/1/10, 1:45 PM	Yes	Yes	Apple	
Developer	BridgeAudioController	6.70.7	2020/1/10, 1:45 PM	Yes	Yes	Apple	
Disabled Software	BroadcomBluetooth20702USBTTransport	7.0.5	2020/1/10, 12:24 PM	Yes	No	Apple	
Extensions	AX88772:						
Fonts	Version: 2.0.0						
Frameworks	Last Modified: 2020/1/31, 3:57 PM						
Installations	Bundle ID: com.asix.driver.ax88772						
Language & Region	Notarized: Yes						
Legacy Software	Loaded: No						
Logs	Get Info String: ASIX USB Ethernet driver						
Managed Client	Obtained from: Identified Developer						
Preference Panes	Kind: Intel						
Printer Software	Architectures: x86_64						
Profiles	64-Bit (Intel): Yes						
Raw Support	Location: /Library/Extensions/AX88772.kext						
SmartCards	Kext Version: 2.0.0						
Startup Items	Loadable: Yes						
Sync Services	Dependencies: Deprecated						
	Signed by: Developer ID Application: ASIX ELECTRONICS CORPORATION (5RHFAZ9D4P), Developer ID Certification Authority, Apple Root CA						

Step 1. Open Terminal.

Step 2. Key in the command: **sudo kextload /Library/Extensions/AX88772.kext**

```

Last login: Tue Jun 9 17:01:35 on ttys000
asix@ASIXs-MacBook-Pro ~ % sudo kextload /Library/Extensions/AX88179_178A.kext

```

Step 3. Key in Password.

```

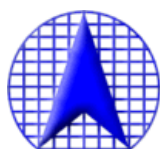
Last login: Tue Jul 28 18:17:05 on ttys000
(base) asix@ASIXs-MacBook-Pro-2 ~ % sudo kextload /Library/Extensions/AX88772.kext
Password:

```

Step 4. Please check Software->Extension again.

AX88772C/AX88772B/AX88772A/AX88760/AX88772 macOS Driver Quick Installation Guide

MacBook Pro						
	Extension Name	Version	Last Modified	Notarized	Loaded	Obtained from
Printers	AX88772	2.0.0	2020/1/31, 3:57 PM	Yes	Yes	Identified Developer
SAS	BCM WLANFirmware4355_Hashstore	1.0	2020/1/10, 1:42 PM	Yes	Yes	Apple
SATA/SATA Express	BCM WLANFirmware4364_Hashstore	1.0	2020/1/10, 1:43 PM	Yes	Yes	Apple
SPI	BCM WLANFirmware4377_Hashstore	1.0	2020/1/10, 1:44 PM	Yes	Yes	Apple
Storage	BootCache	40	2020/1/10, 1:27 PM	Yes	Yes	Apple
Thunderbolt	BridgeAudioCommunication	6.70.7	2020/1/10, 1:45 PM	Yes	Yes	Apple
USB	BridgeAudioController	6.70.7	2020/1/10, 1:45 PM	Yes	Yes	Apple
▼ Network	BroadcomBluetooth20703USBTransport	7.0.5	2020/1/16, 12:34 PM	Yes	No	Apple
Firewall	BroadcomBluetoothHostControllerUSBTransport	7.0.5	2020/1/16, 12:34 PM	Yes	No	Apple
Locations	BSDKernel	19.5.0	2020/6/30, 3:52 PM	Yes	Yes	Apple
Volumes	CalDigitHDProDrv	2.1.2	2013/9/1, 11:44 AM	Yes	No	Identified Developer
WWAN	CanonEOS1D	489.120.1	2020/1/10, 2:33 PM	Yes	No	Apple
Wi-Fi	cd9660	1.4.4	2020/1/10, 1:26 PM	Yes	No	Apple
▼ Software	cddafs	2.6.1	2020/1/10, 1:41 PM	Yes	No	Apple
Accessibility	CellPhoneHelper	1.4.0	2020/1/10, 1:49 PM	Yes	No	Apple
Applications	com.apple.DriverKit-AppleEthernetE1000	1.0	2020/6/30, 3:52 PM	Yes	No	Apple
Developer						
Disabled Software						
Extensions	AX88772: Version: 2.0.0 Last Modified: 2020/1/31, 3:57 PM Bundle ID: com.asix.driver.ax88772 Notarized: Yes Loaded: Yes Get Info String: ASIX USB Ethernet driver Obtained from: Identified Developer Kind: Intel Architectures: x86_64 64-Bit (Intel): Yes Location: /Library/Extensions/AX88772.kext Kext Version: 2.0.0 Load Address: 18446743521862275000 Loadable: Yes Dependencies: Deprecated					
Fonts						
Frameworks						
Installations						
Language & Region						
Legacy Software						
Logs						
Managed Client						
Preference Panes						
Printer Software						
Profiles						
Raw Support						
SmartCards						
Startup Items						
Sync Services						

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