



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

**AX88772C/AX88772B/AX88772A/AX88760/AX88772
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Revision 1.00
August 10th, 2020



Revision History

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

Contents

1. Introduction	4
2. Driver Installation Procedures	4
3. Driver Uninstallation Procedures	11
4. FAQs.....	14
4-1. Where can I obtain the latest AX88772C/AX88772B/AX88772A/ AX88760/AX88772 macOS driver?	14 14
4-2. How to isolate driver failure issues after upgrading macOS system?	14
4-3. I get the following popup dialog after updating to Mac OS 10.15.4	15
4-4. If driver is not loaded by system after driver installed.	15

1. Introduction

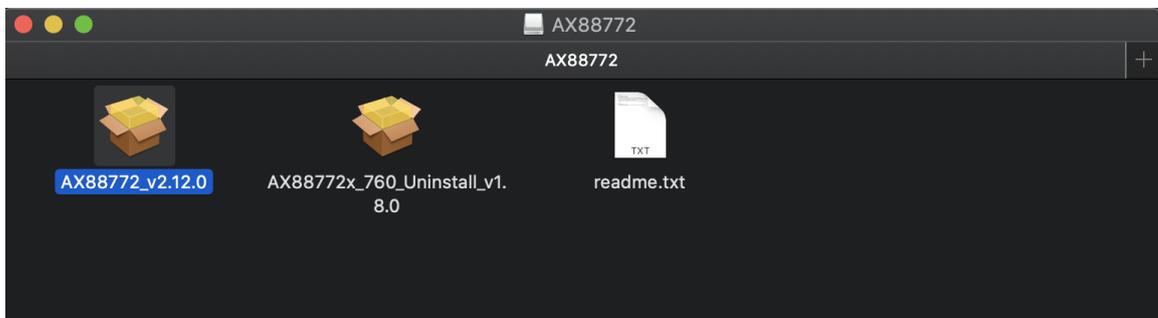
This document contains the installation and uninstallation information of AX88772C/AX88772B/AX88772A/AX88760/AX88772 macOS drivers.

2. Driver Installation Procedures

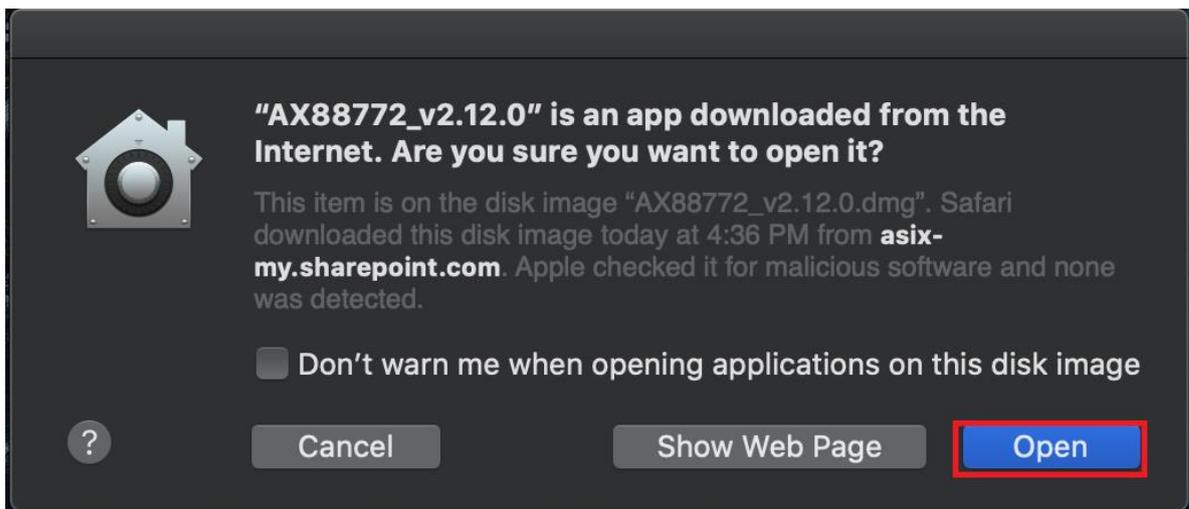
The AX88772C/772B/772A/760/772 macOS driver installation package is “**AX88772_.dmg**”.

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

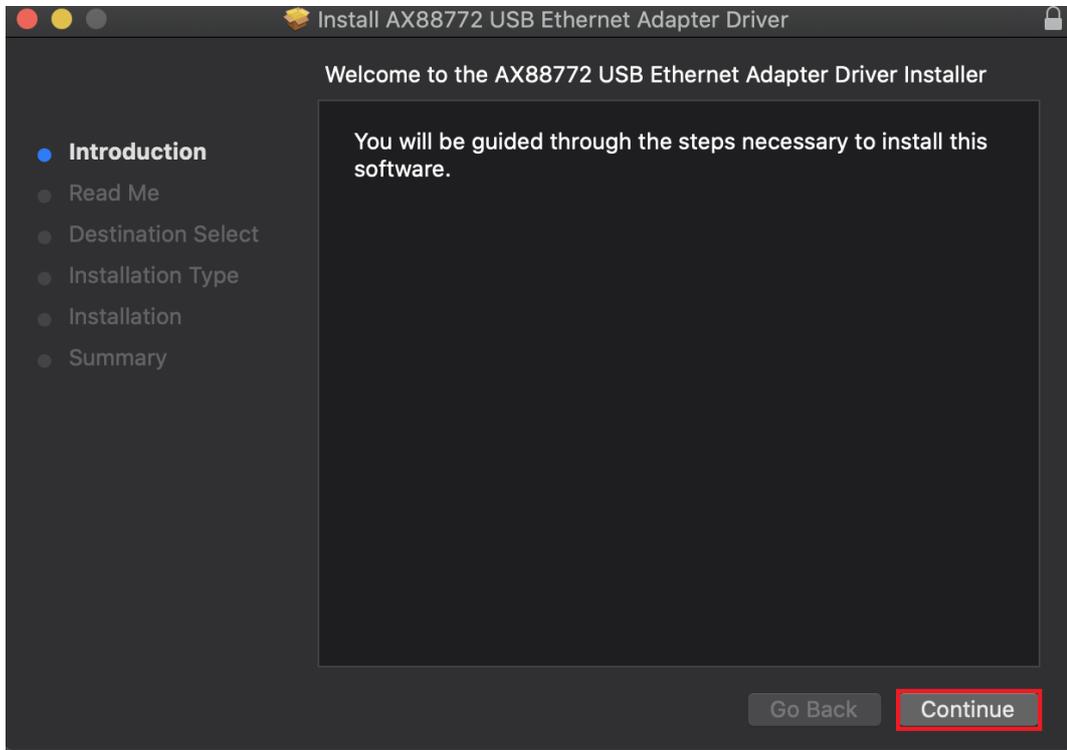
Step 1: Click the “**AX88772_.dmg**”, the following “AX88772” virtual disk will be appeared on the Desktop of your macOS system. (This “AX88772” virtual disk will be auto-removed after rebooting macOS system.)



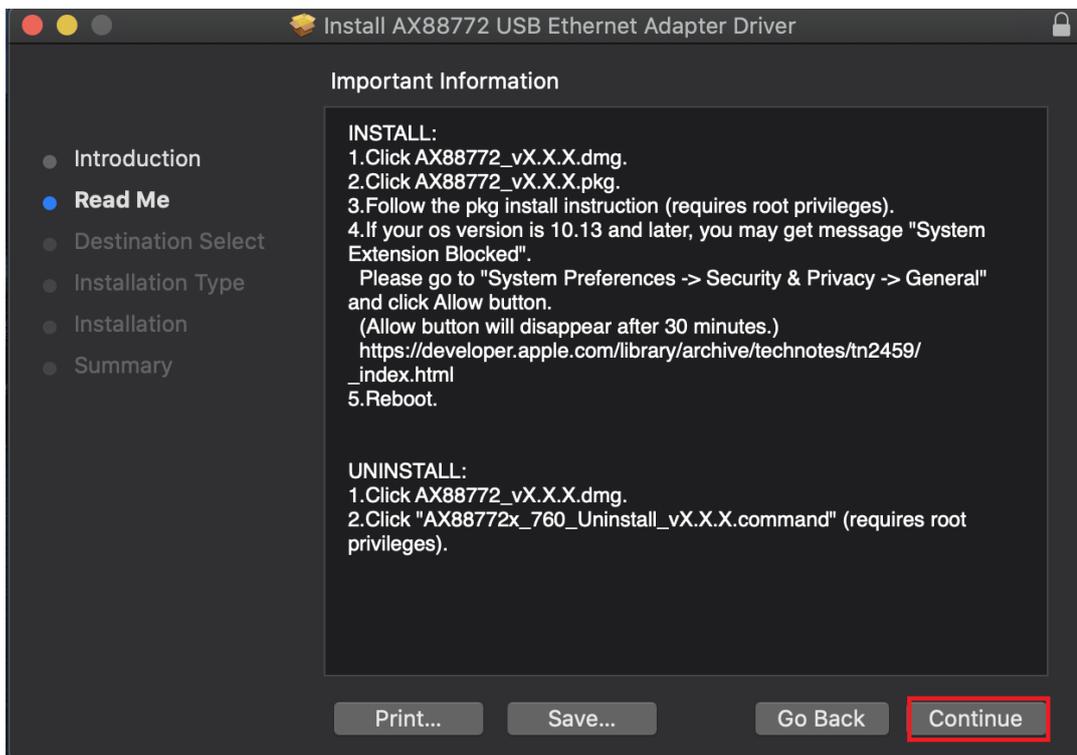
Step 2: Click the “**AX88772__vx.x.x.pkg**” (“x.x.x” is driver installer revision number), the following driver setup dialog will appear. Click the [Open] button to start the installation operation and follow the instructions to continue the installation.



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.



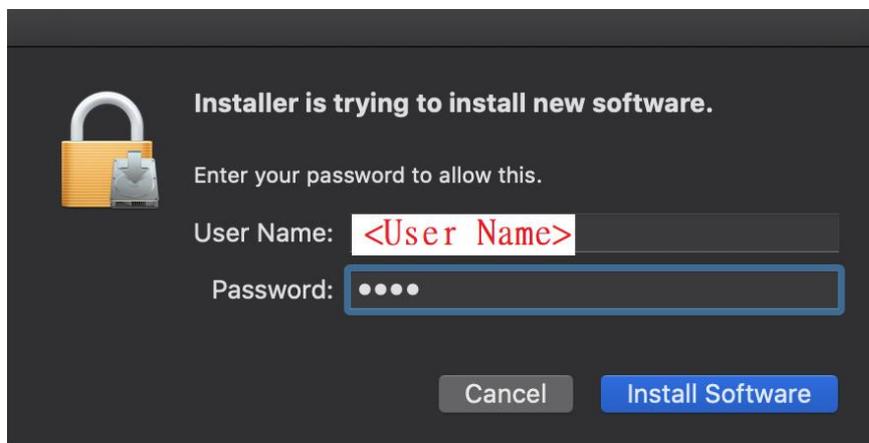
Step 4: Read the information of “Read Me” page first and press [Continue] button to continue the installation operation.



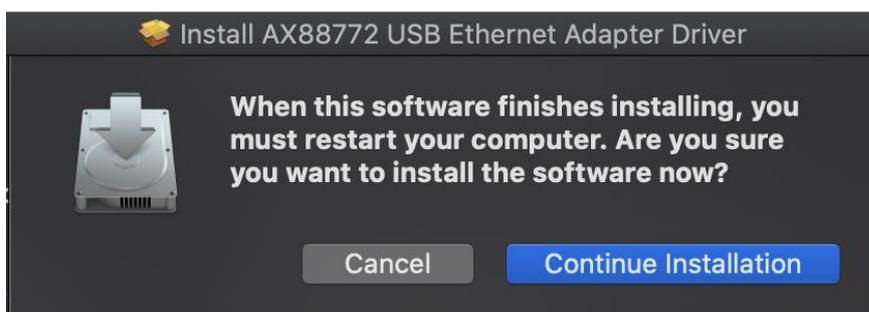
Step 5: Click the [Install] button to continue the installation operation.



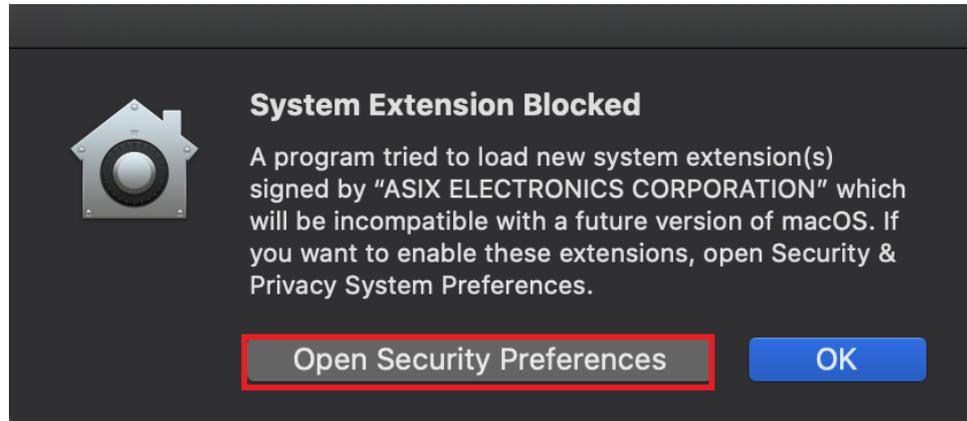
Step 6: You might need to enter your user/password during the driver installation.



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

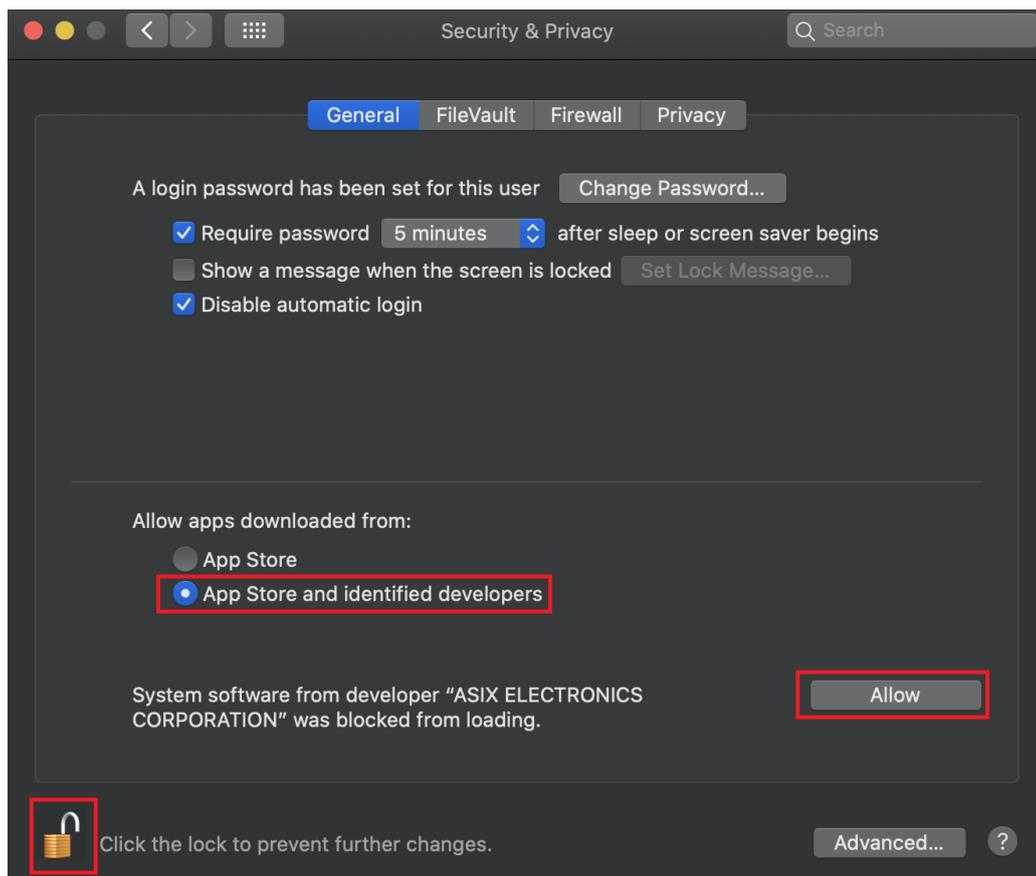


Step 8: Click the [Open Security Preference] button to continue the installation operation.

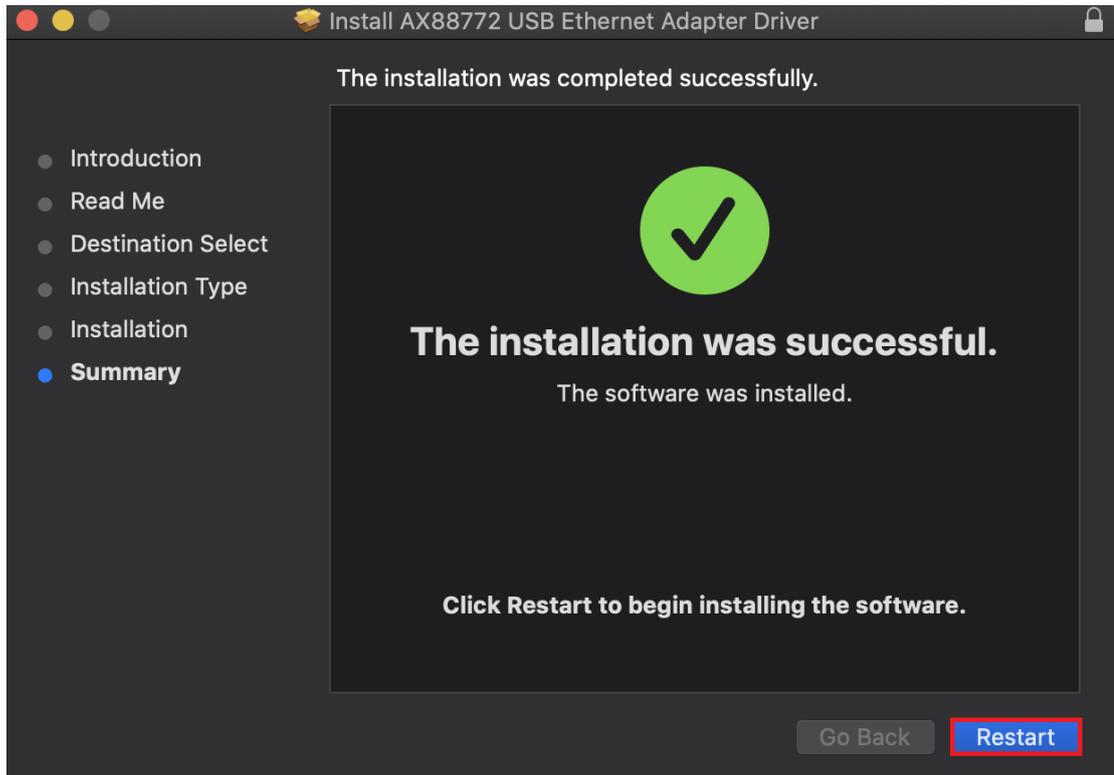


Note: This step is necessary, macOS 10.13 and above has a new feature that requires user approval before loading newly-installed third-party kernel extensions (KEXTs). If you do not click "Open Security Preferences" button to allow it as next step, the driver will be not installation well.

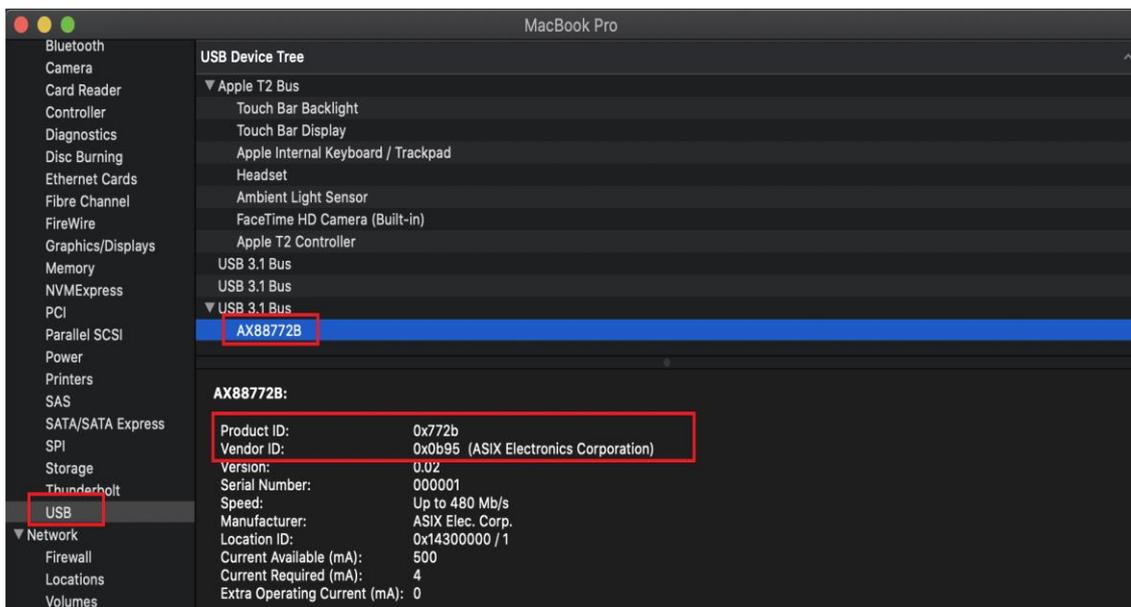
Step 9: Click the lock to prevent further changes, then press [Allow] button to continue the driver installation.

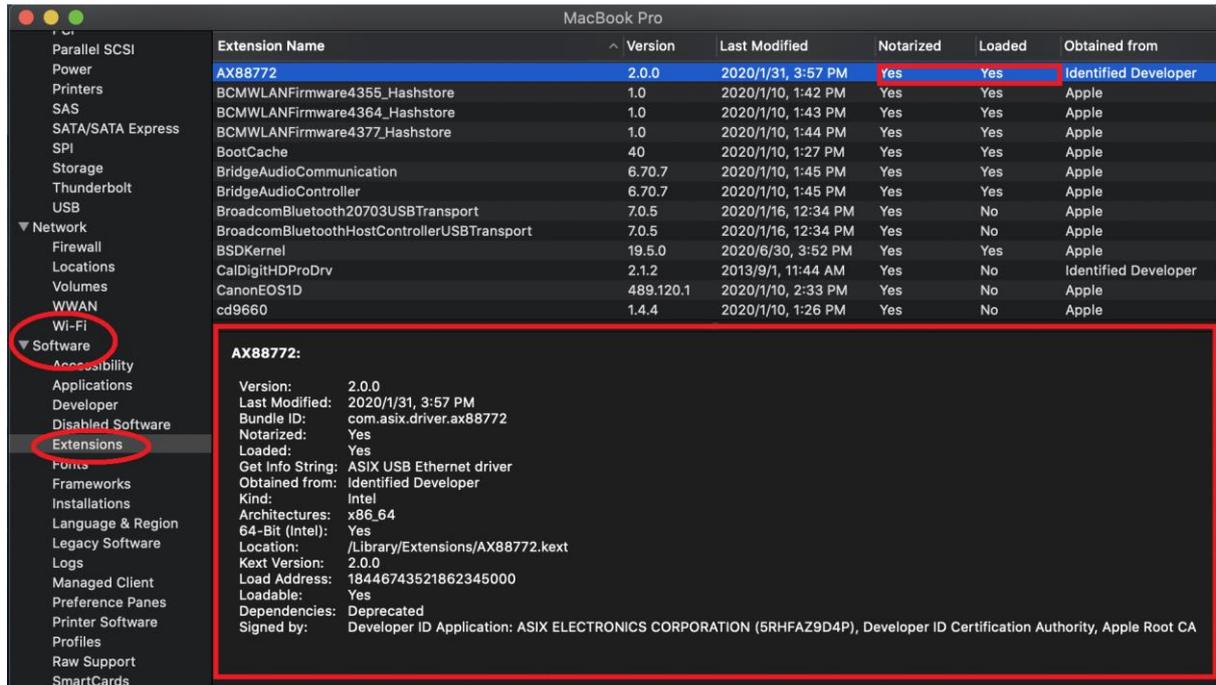


Step 10: Click the [Restart] button to restart macOS system to take effect the revised driver installation.

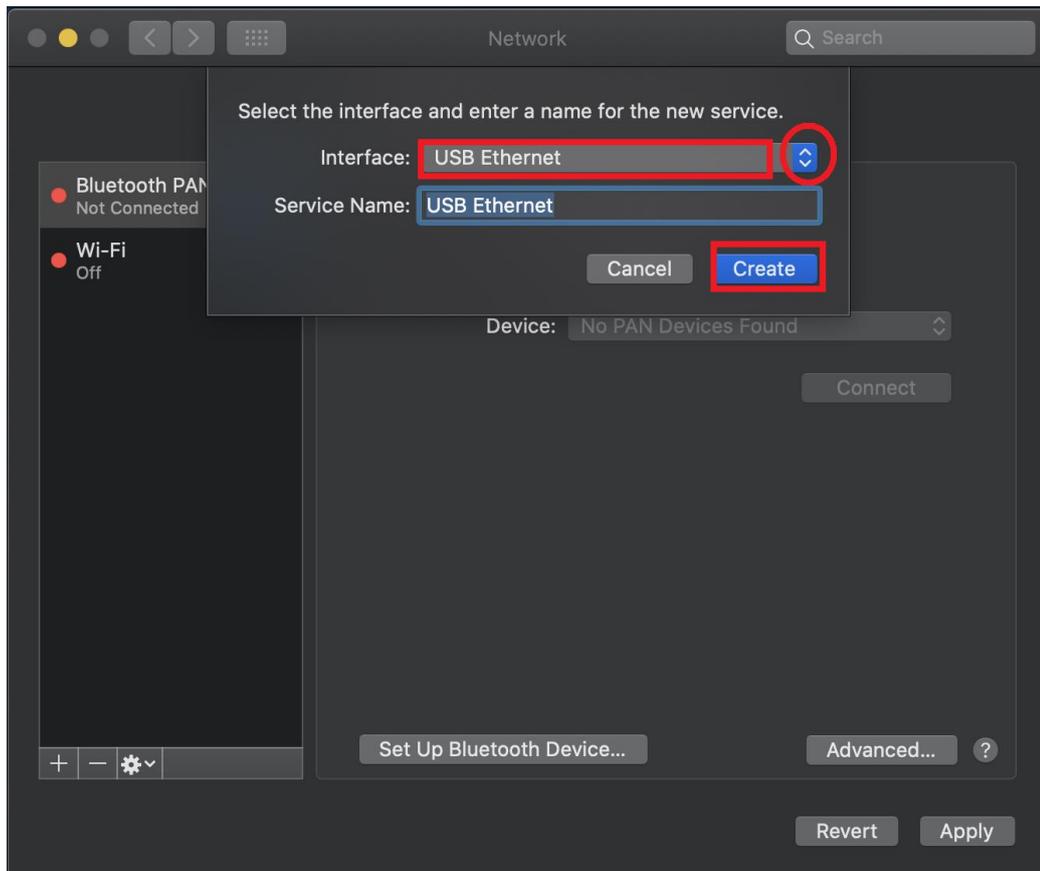


Step 11: After booting up your macOS system, plug your AX88772C/772B/772A/760/772 USB dongle onto the USB port of your macOS system and refer to the following information to double check if your USB dongle had been identified properly by macOS system and the AX88772C/772B/772A/760/772 macOS driver was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

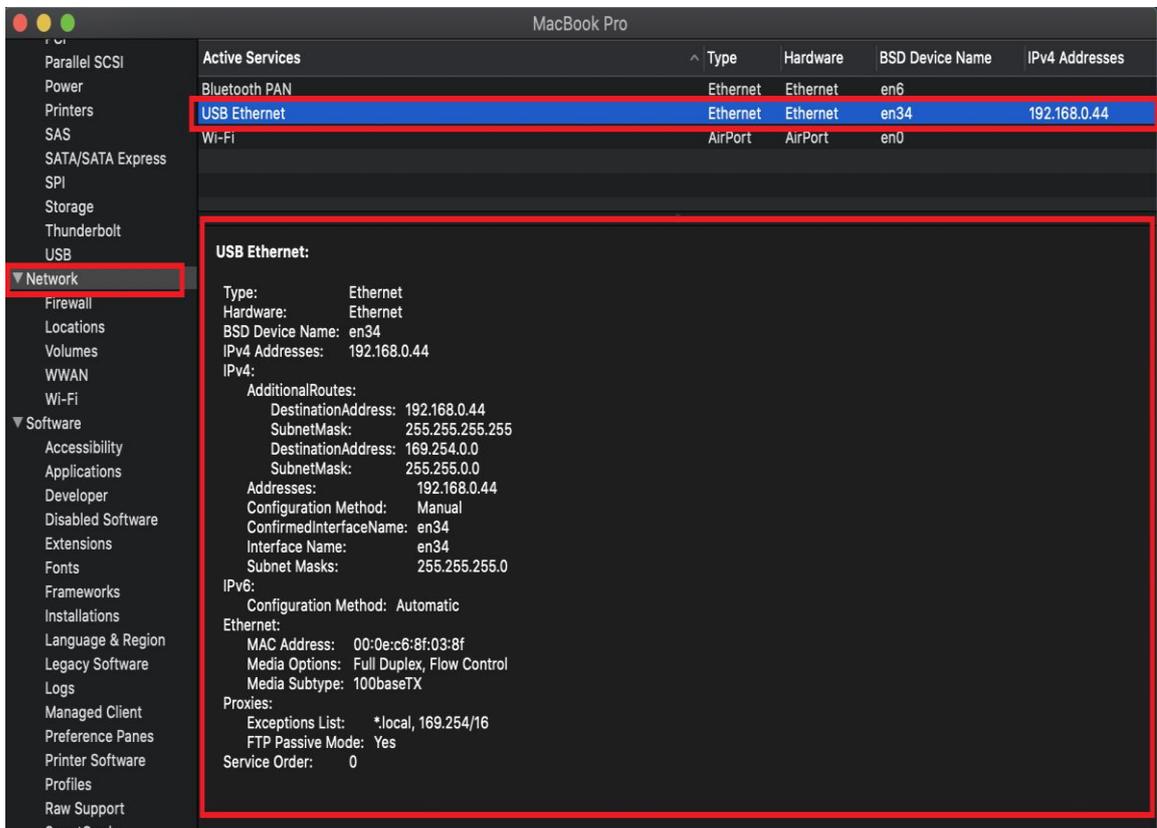
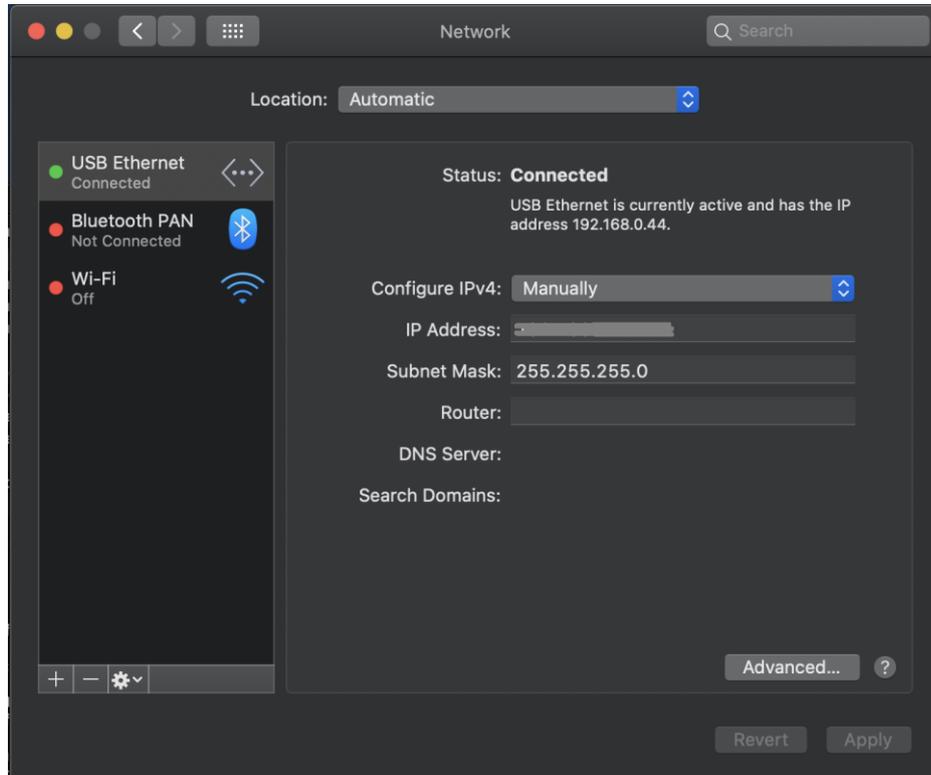




Step 12: Please refer to below figure to add a new “USB Ethernet” network interface and then press the [Apply] button to take effect the new network interface.



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

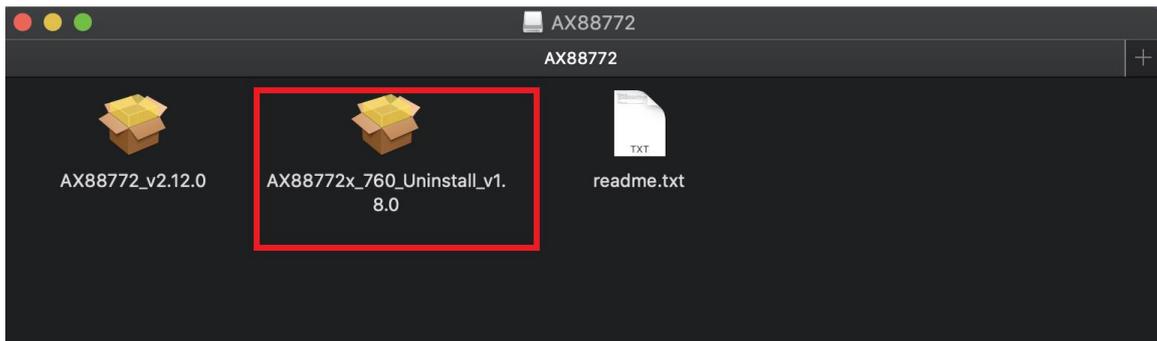


3. Driver Uninstallation Procedures

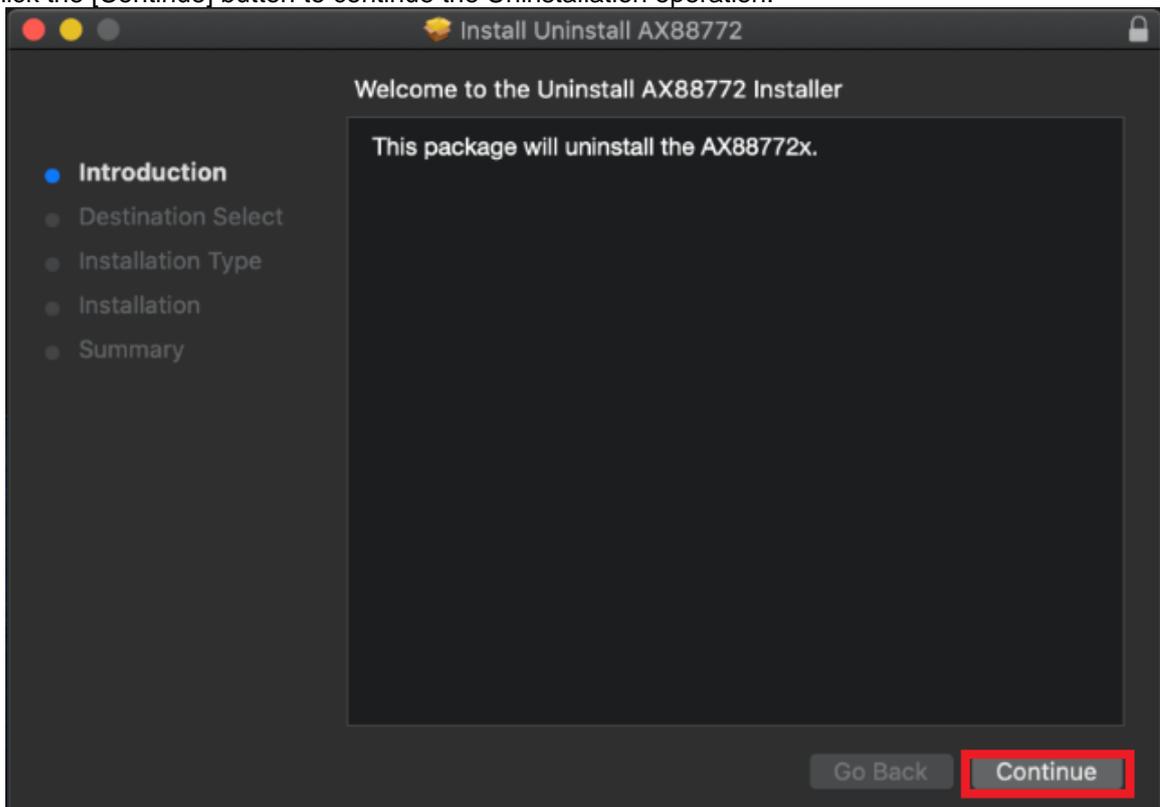
The AX88772C/772B/772A/760/772 macOS driver uninstallation utility is “AX88772x_760_Uninstall_vxxx” (xxx is the revision number of the driver uninstaller utility).

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

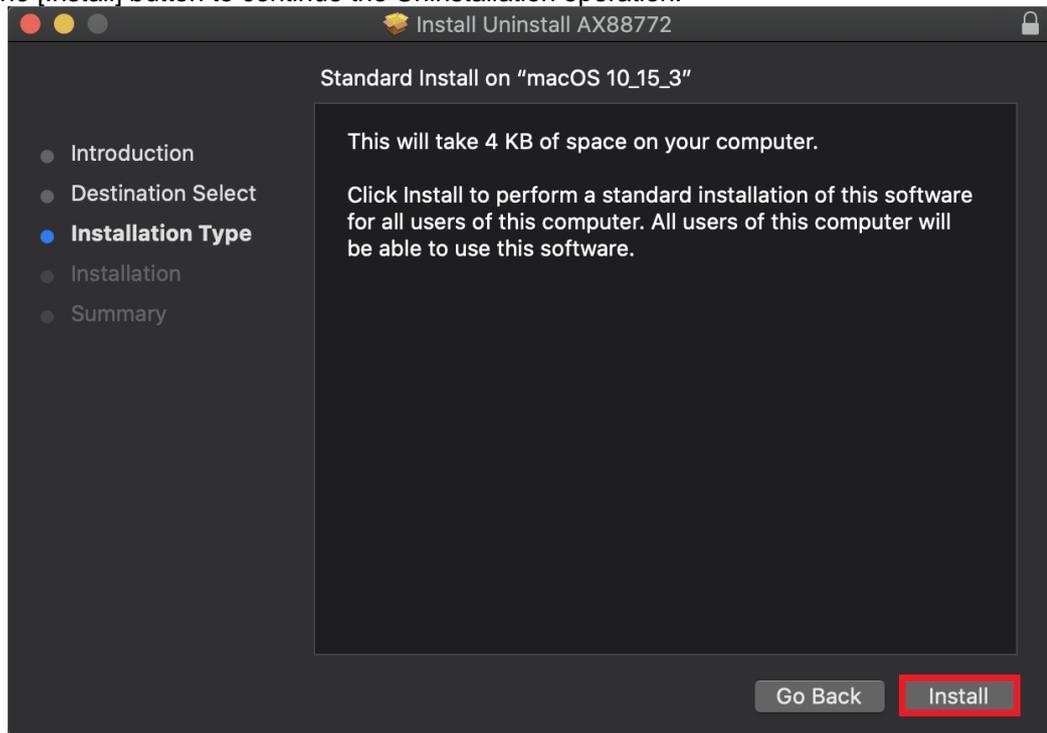
Step 1: Click the “AX88772_.dmg”, the following “AX88772” virtual disk will be appeared on the Desktop of your macOS system. (This “AX88772” virtual disk will be auto-removed after rebooting macOS system.)



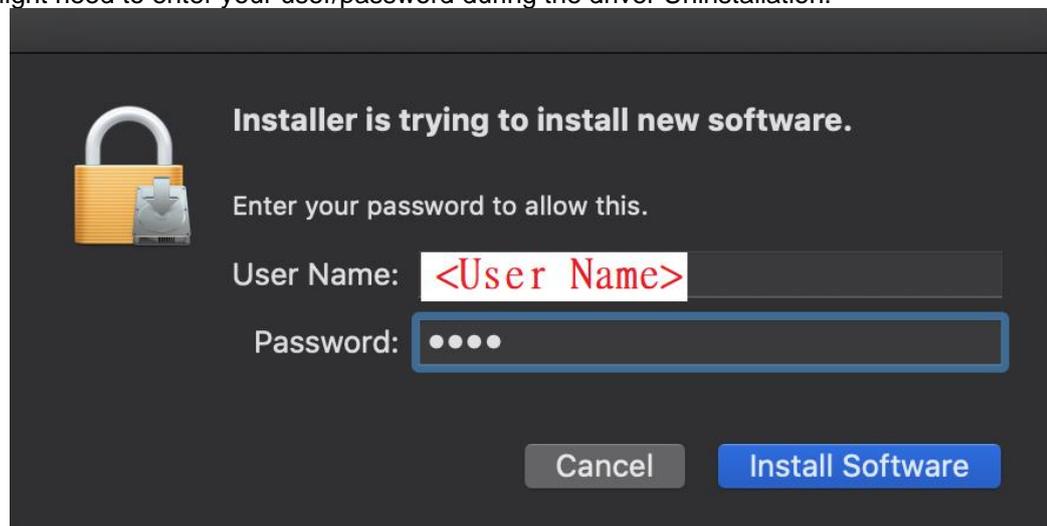
Step 2: Click the [Continue] button to continue the Uninstallation operation.



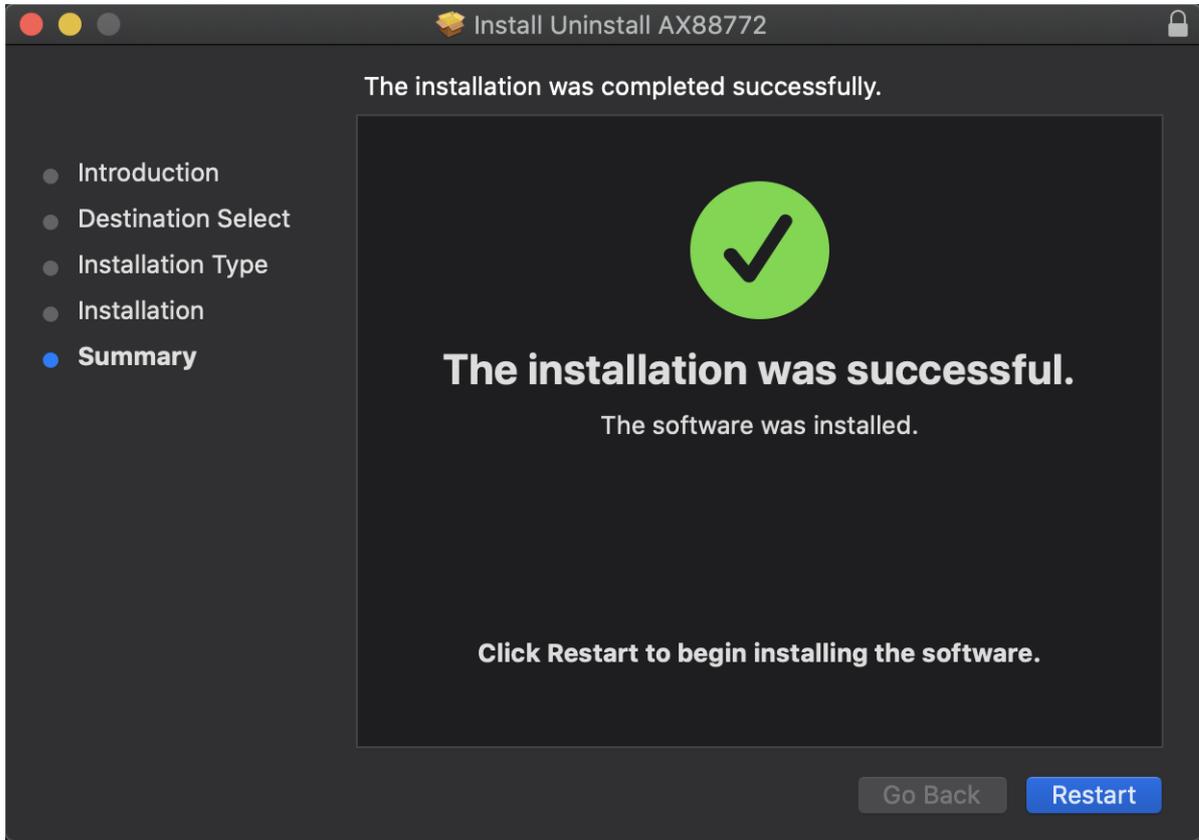
Step 3: Click the [Install] button to continue the Uninstallation operation.



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.

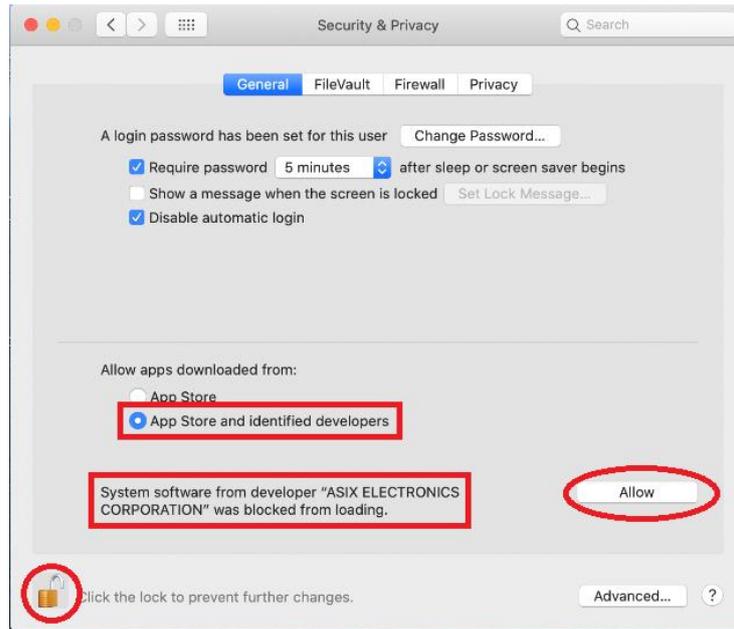
4-2. How to isolate driver failure issues after upgrading macOS system?

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.

	Extension Name	Version	Last Modified	Notarized	Loaded	Obtained from
Printers						
SAS	AppleServerRAID	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	BroadcomBluetooth2020USBTransport	7.0.5	2020/1/16, 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**

```

asix — -zsh — 80x24
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.

```

asix — -zsh — 80x24
Last login: Tue Jul 28 18:17:05 on ttys000
((base) asix@ASIXs-MacBook-Pro-2 ~ % sudo kextload/ Library/Extensions/AX88772.ke
xt
Password:

```

Step 4. Please check Software->Extension again.

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



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